# TC-H1600

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*

This set is the deck section in MHC-H1600, FH-E636CD.

| Model Name Using Similar Mechanism | TC-WR520/WR520S | |
|---|---|---|
| Tape Transport Mechanism Type | DECK A | TCM-190RA12A |
| | DECK B | TCM-190RB22A |

## SPECIFICATIONS

### Cassette Deck Section

| | |
|---|---|
| Recording system | 4-track 2-channel stereo |
| Frequency response | (DOLBY NR OFF) |
| | 40 — 13,000 Hz (±3 dB) using TYPE I cassette (Sony HF-S) |
| | 40 — 14,000 Hz (±3 dB) using TYPE II cassette |
| Wow and flutter | 0.1% WRMS ±0.3% (DIN) |

Design and specifications subject to change without notice.

**Note**
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

MICROFILM

STEREO CASSETTE DECK

SONY®

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**Flexible Circuit Board Repairing**

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

**Notes on chip component replacement**

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

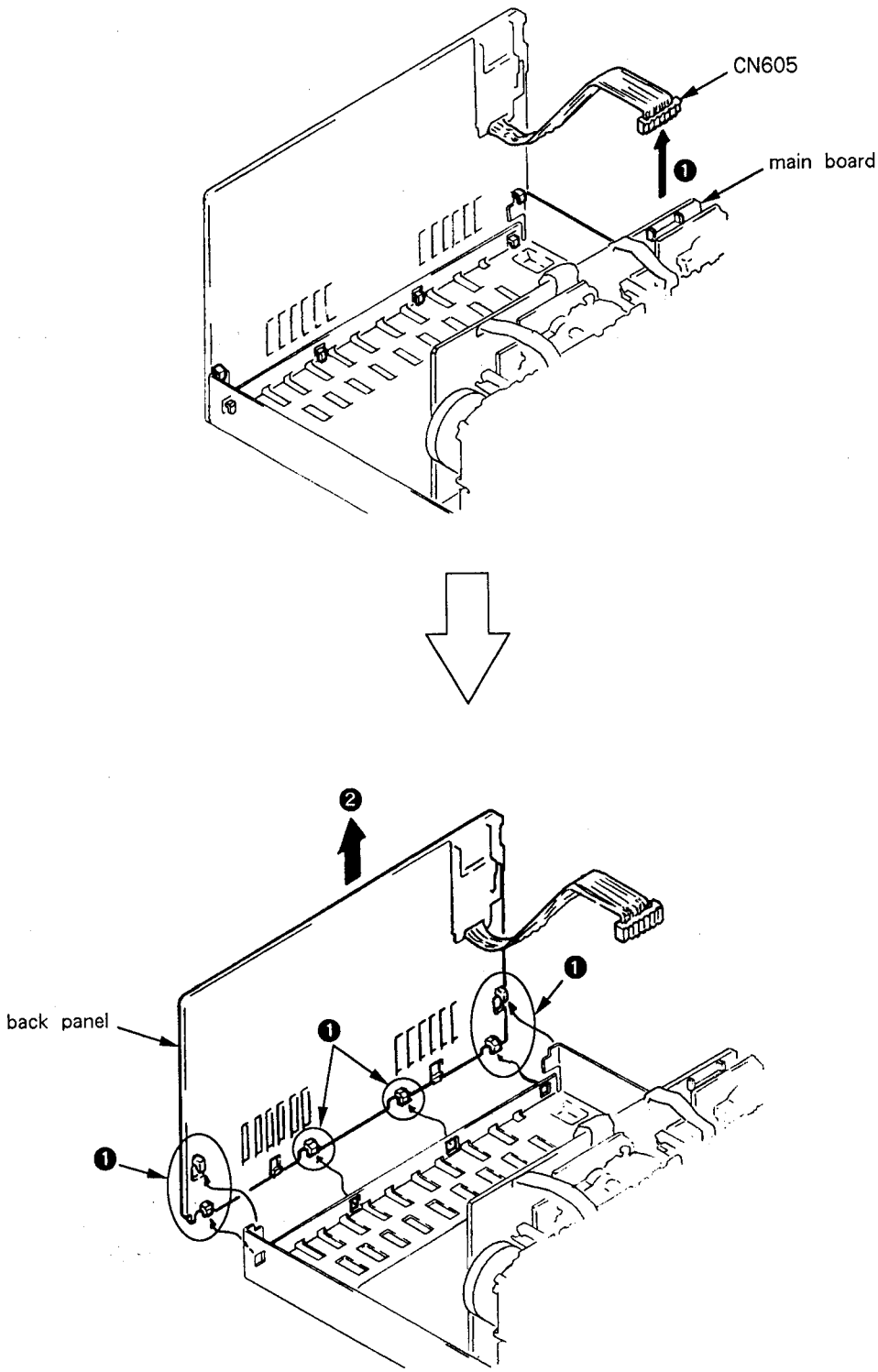
**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

# SECTION 2
# DISASSEMBLY

## 2-1. BACK PANEL REMOVAL

**Note :** Follow the disassembly procedure in the numerical order given.

① Remove the connector of the main board (CN605).
② Release the latches while lifting up back panel.



# SECTION 3
# ADJUSTMENTS

## 3-1. MECHANICAL ADJUSTMENTS

**PRECAUTION**

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　pinch roller
   erase head　rubber belts
   capstan　idler
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the perts adjusted.
5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

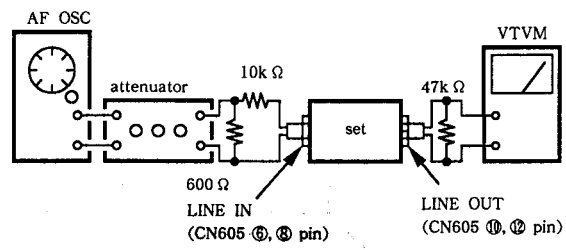
| Torgue | Torque meter | Meter reading |
|---|---|---|
| FWD | CQ-102C | 35 to 60g · cm (0.49 to 0.83 oz · inch) |
| FWD Back tension | CQ-102C | 2 to 6g · cm (0.028 to 0.08 oz · inch) |
| REV | CQ-102RC | 35 to 60g · cm (0.49 to 0.83 oz · inch) |
| REV Back tension | CQ-102RC | 2 to 6g · cm (0.028 to 0.08 oz · inch) |
| FF, REW | CQ-201B | 70 to 110g · cm (0.98 to 1.52 oz · inch) |

## 3-2. ELECTRICAL ADJUSTMENT

**Note :** The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording.
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
  DOLBY NR switch : OFF
  DIRECTION mode switch : ⇄
- Standard Record :
  Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

**–Record Mode–**




Standard Input Level

| input terminal | LINE IN |
|---|---|
| source impedance | 10kΩ |
| input level | 0.25V (–10dB) |

Standard Output Level

| output terminal | LINE OUT |
|---|---|
| load impedance | 47kΩ |
| output level | 0.35V (–7dB) |

Test tape

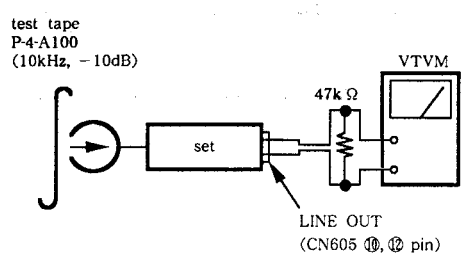
| Type | Signal | Used for |
|---|---|---|
| P-4-A100 | 10kHz, –10dB | Azimuth Adjustment |
| P-4-L300 | 315Hz, 0dB | PB Level Adjustment |
| WS-48B | 3kHz, 0dB | Tape Speed Adjustment |

### Record/Playback Head Azimuth Adjustment

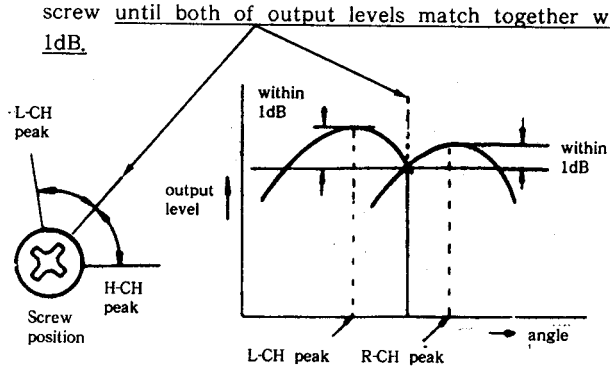
DECK A　DECK B

**Procedure :**

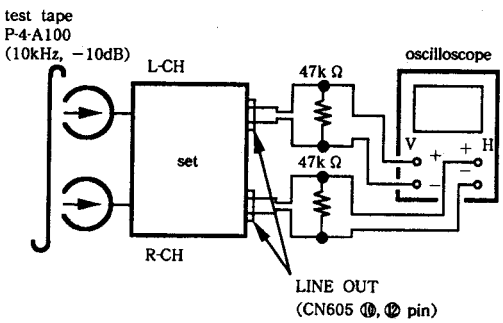
1. Mode : FWD playback

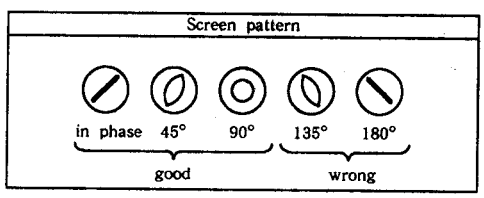


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



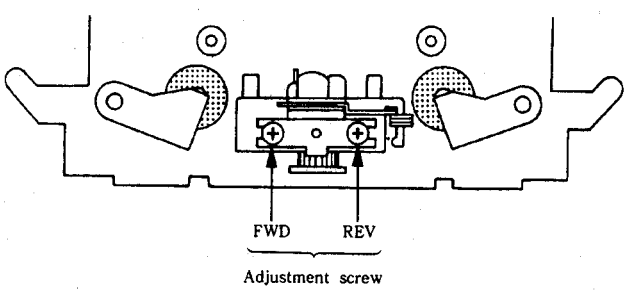

3. Phase Check
   Mode : playback



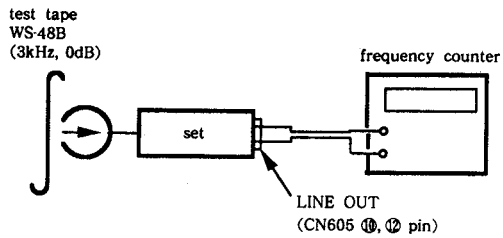

4. Set in the REV mode and repeat the step 1-3.
5. After the adjustment, lock the screws with locking compound.

**Adjustment Location** : Record/Playback head




**Tape Speed Adjustment** DECK A DECK B

**Procedure :**
Mode : playback




Perform high speed adjustment before mormal speed adjustment

**(high speed adjustment)**
1. Set to FWD playback mode.
2. Keep on pressing the HIGH SPEED DUBBING switch.
3. Adjust the RV72A (DECK A), RV72B (DECK B) so that the frequency counter reading becomes 6,000±30Hz.
4. Set in the REV mode and repeat the step 1-3.

**(normal speed adjustment)**
1. Set to FWD playback mode.
2. Keep on pressing the NORMAL SPEED DUBBING switch.
3. Adjust the RV71A (DECK A), RV71B (DECK B) so that the frequency counter reading becomes 3,000±15Hz.
4. Set in the REV mode and repeat the step 1-3.

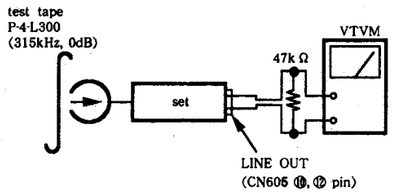
Frequency difference between the beginning and the end of the tape, should be within 3%.
Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

**Adjustment Location** : MD (A), MD (B) board

## Playback Level Adjustment DECK A DECK B

**Procedure :**

Mode : playback




Adjust RV11 (L-CH), RV21 (R-CH) so that the reading on VTVM meets the adjustmeny limits below.

**Ajustment Limits :**

LINE OUT level : −7±1dB (0.39−0.31dB)

Level difference between channels : less than 1dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

**Adjustment Location :** MD (A), MD (B) board

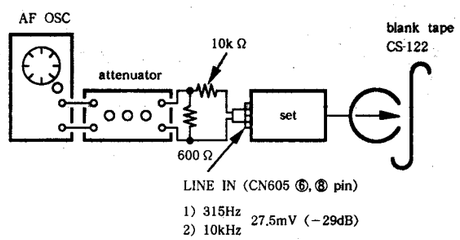
## Record Bias Adjustment DECK A DECK B

**Setting :**

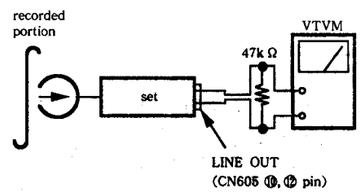
REC LEVEL control : Standard Record (See page 5).

**Procedure :**

1. Mode : record




2. Mode : playback




Playback the signal recorded in step 1.
Confirm that the 10kHz playback output is 0±0.5dB relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

**Adjustment Location :** MD (B) board

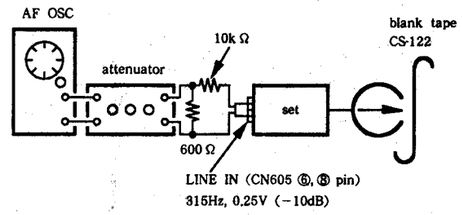
## Record Level Adjustment DECK A DECK B

**Setting :**

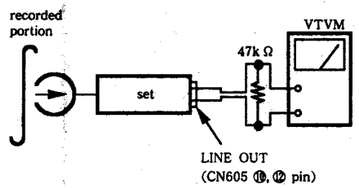
REC LEVEL control : Standard Record (See page 5).

**Procedure :**

1. Mode : record



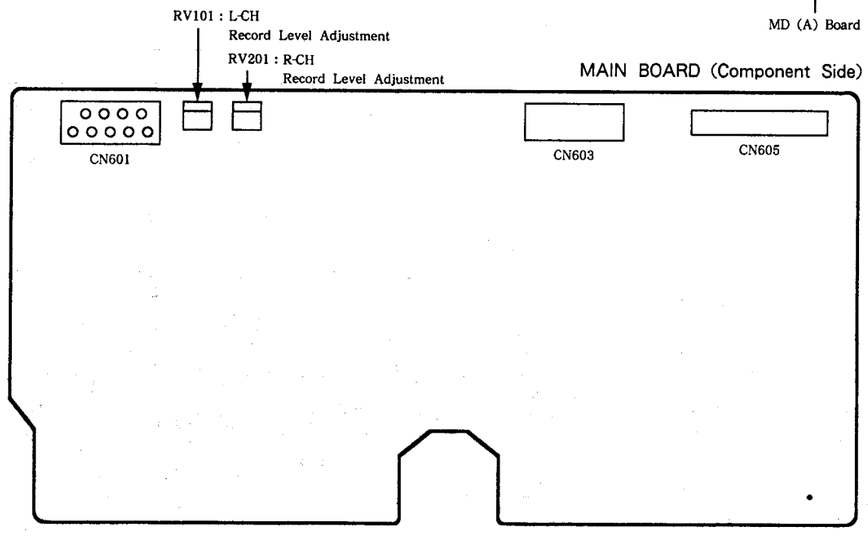

2. Mode : playback



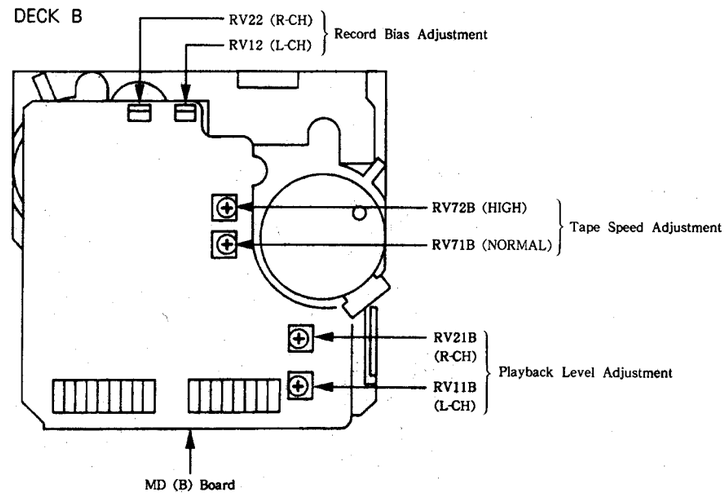

3. Playback the signal recorded in step 1.
Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

**Ajustment Limits :** −7dB±0.5dB (0.33−0.36V)

**Adjustment Location :** MAIN board

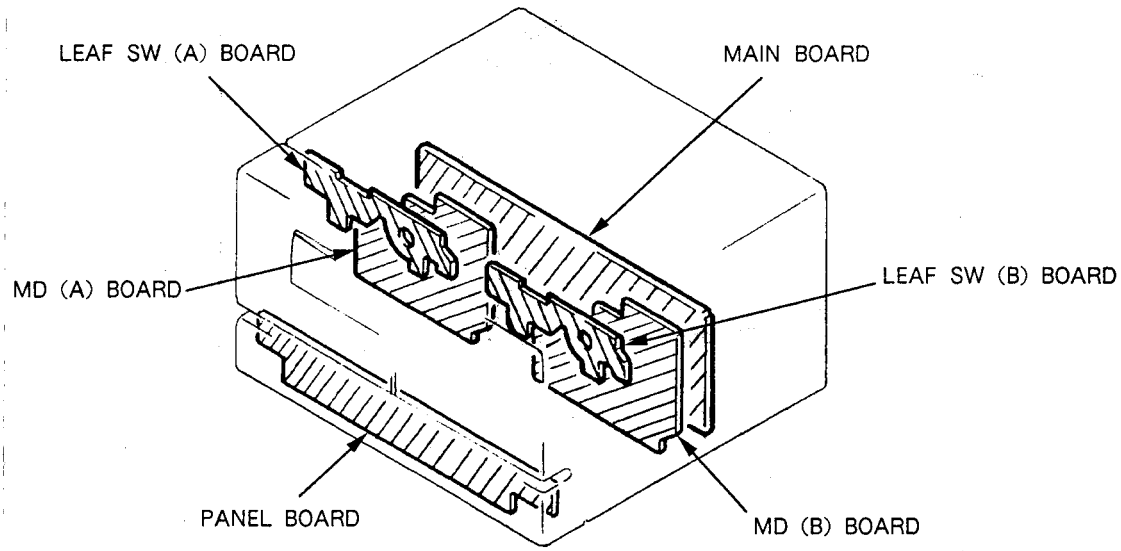



**Adjustment Location :** MD (B) board



# SECTION 4
# DIAGRAMS

## 4-1. CIRCUIT BOARDS LOCATION




Tape Speed Adjustment

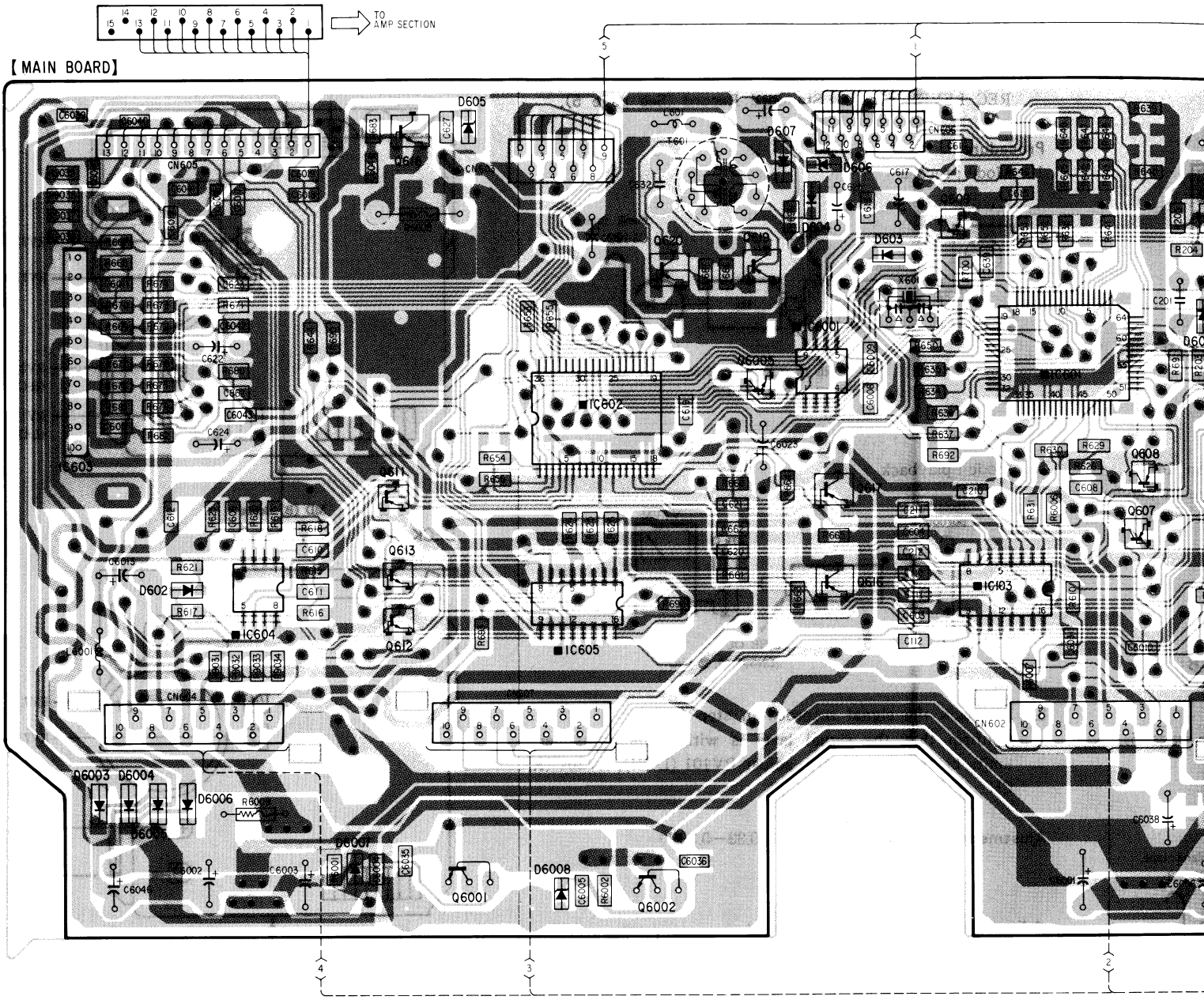
k Level Adjustment

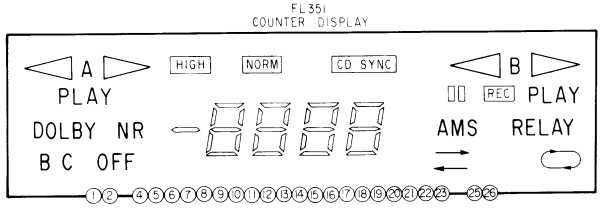
Tape Speed Adjustment

Level Adjustment

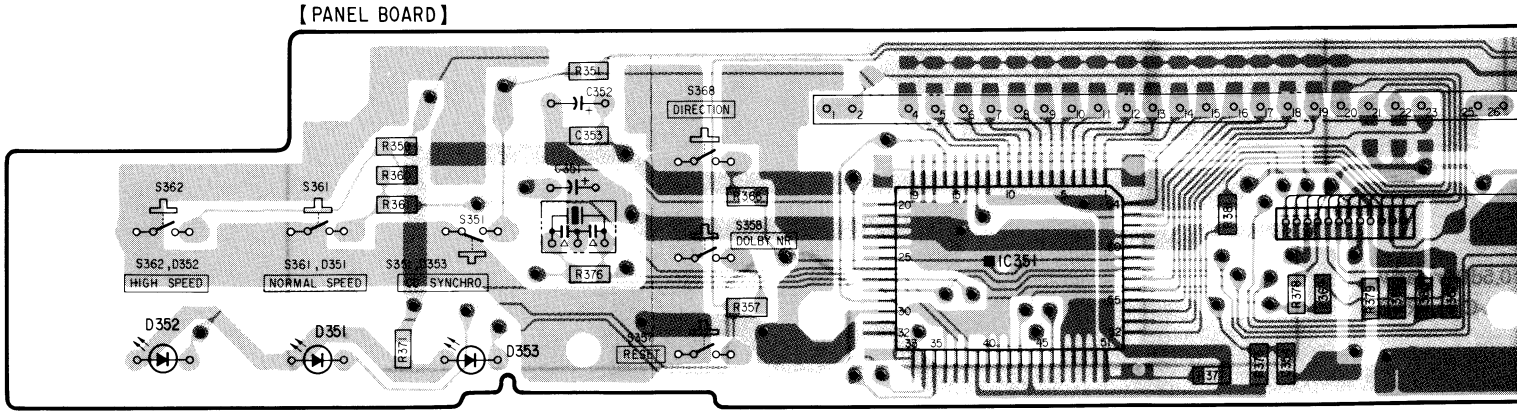
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

【MAIN BOARD】

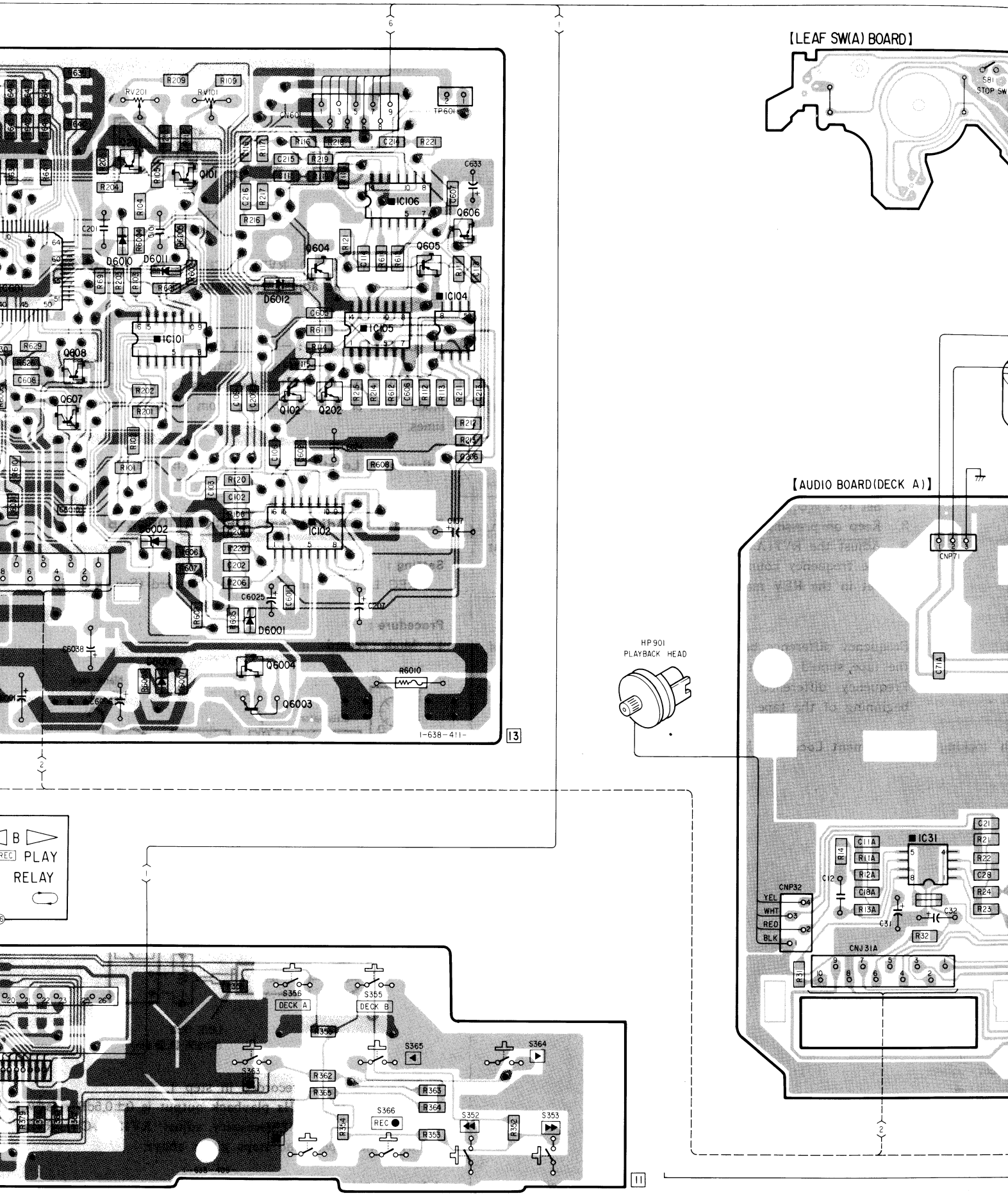


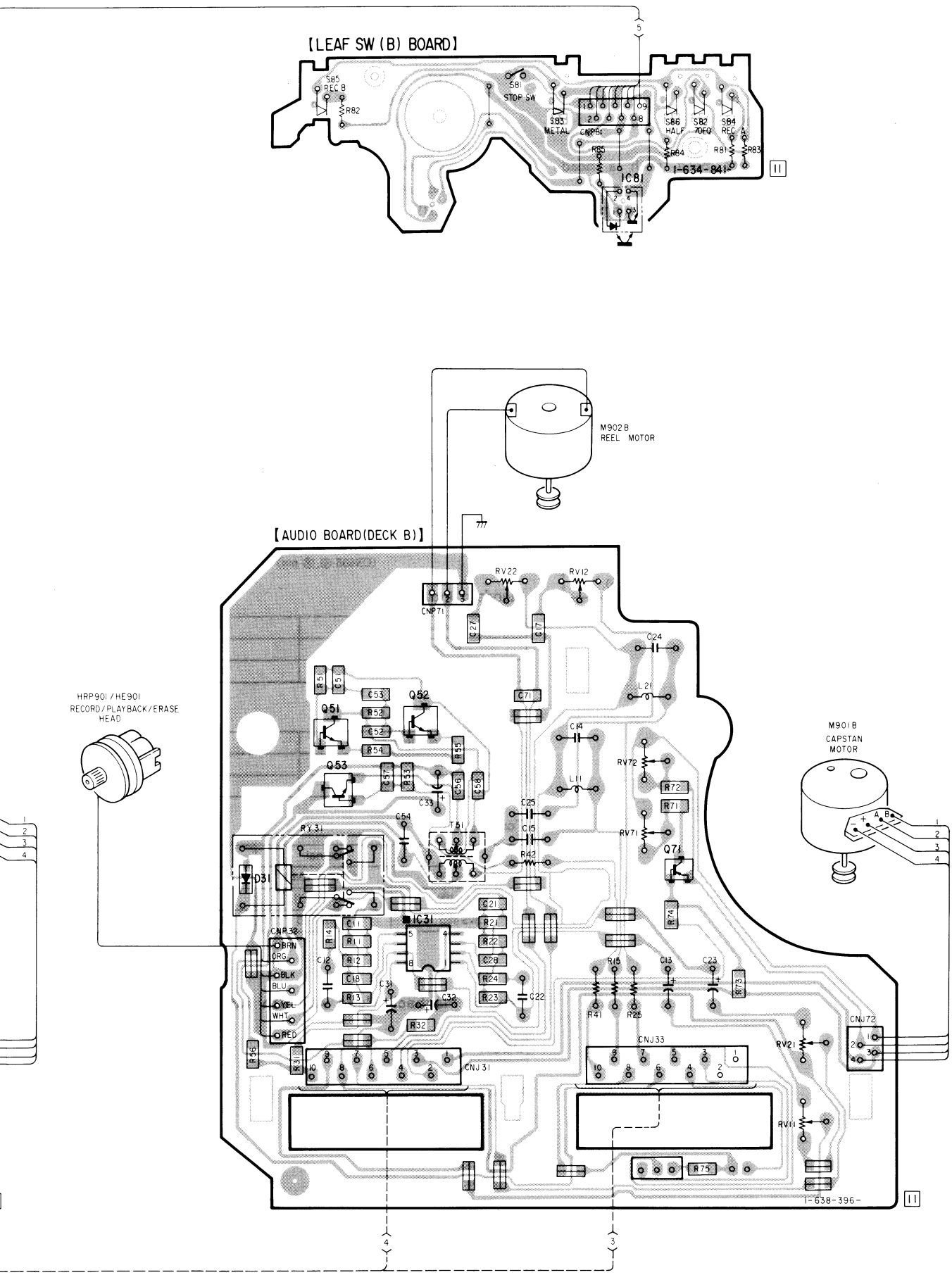

【PANEL BOARD】

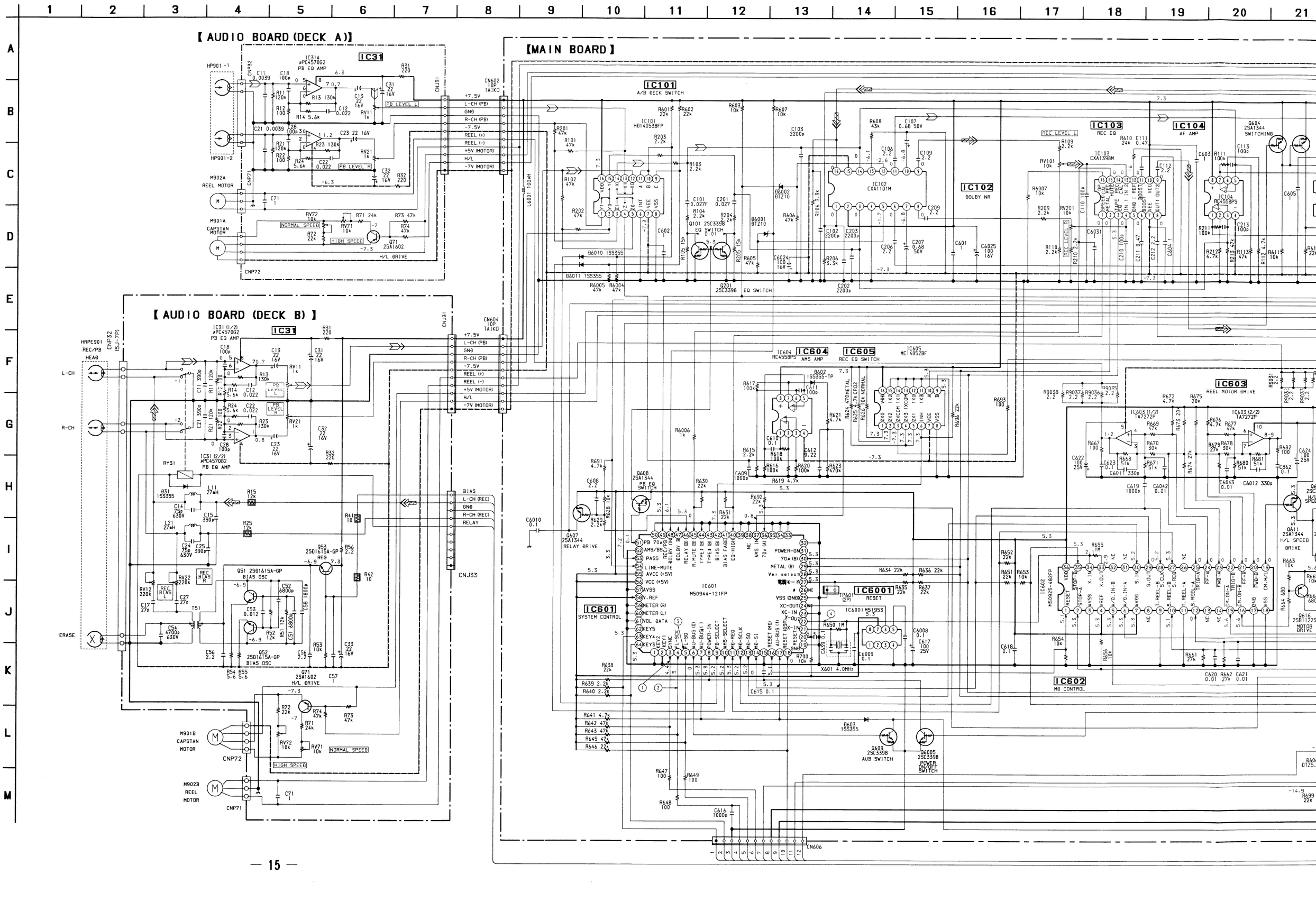



02


【LEAF SW(A) BOARD】
S81
STOP SW
【AUDIO BOARD(DECK A)】
HP901
PLAYBACK HEAD
CNP71
CNP32
YEL
WHT
RED
BLK
CNJ31A
IC31
IC101
IC102
IC104
IC105
IC106
Q101
Q102
Q202
Q604
Q605
Q606
Q607
Q608
Q6003
Q6004
D6001
D6002
D6010
D6011
D6012
S366
DECK A
S355
DECK B
S365
S364
S363
S352
S353
REC
PLAY
RELAY
1-638-411-
13
11

| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---|---|---|---|---|---|---|




【AUDIO BOARD (DECK A)】
【AUDIO BOARD (DECK B)】
【MAIN BOARD】
IC31
IC101
IC102
IC103
IC104
IC601
IC602
IC603
IC604
IC605
IC6001
CNJ31
CN602 10P TAIKO
CN604 10P TAIKO
CNJ33
CN606
+7.5V
L-CH (PB)
GND
R-CH (PB)
-7.5V
REEL (+)
REEL (-)
+5V (MOTOR)
H/L
-7V (MOTOR)
BIAS
L-CH (REC)
R-CH (REC)
RELAY
HP901-1
HP901-2
M902A REEL MOTOR
M901A CAPSTAN MOTOR
M901B CAPSTAN MOTOR
M902B REEL MOTOR
CNP72
CNP71
HRPE901 REC/PB HEAD
ERASE
RY31
T51
X601 4.0MHz
A/B DECK SWITCH
DOLBY NR
REC EQ
AF AMP
REEL MOTOR DRIVE
EQ SWITCH
AMS AMP
REC EQ SWITCH
PB EQ SWITCH
RELAY DRIVE
AUB SWITCH
POWER ON/OFF SWITCH
SYSTEM CONTROL
MD CONTROL
RESET
H/L DRIVE
BIAS OSC
REG
SWITCHING
PB EQ AMP
REC LEVEL L
REC LEVEL R
PB LEVEL L
PB LEVEL R
NORMAL SPEED
HIGH SPEED

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

IC102 DOLBY NR

IC103 REC EQ

IC104 AF AMP

IC105 PB OUTPUT SWITCH

IC106 REC AMP

IC603 REEL MOTOR DRIVE

IC602 MD CONTROL

IC605 MC14052BF

【LEAF SW(A) BOARD】

【LEAF SW(B) BOARD】

【PANEL BOARD】

IC351 FL DRIVE LED DRIVE

CN601 CN603 CNP81 CN607 CN605 CN351

SHUT 5V HALF 70EQ METAL GND STOP SW

BIAS REC L REC R RELAY

A GND PB L 7.5V PB R -7.5V REC L D GND REC R POWER ON/OFF AC 9V M GND AC 9V AUB

TO AMP SECTION

DOLBY NR RESET DECK A DECK B REC SYNCHRO DIRECTION NORMAL SPEED HIGH SPEED

IC106
REC AMP

R116 22k IC106 BA3308F R216 22k
R121 68k
C114 2.2
R118 220k C607 1 R218 220k
C6013 100 25V
C216 100p
R119 4.7k R219 4.7k R217 1k
C116 100p C633 22 16V C115 2.2
Q606 2SC3395 PB/REC
R613 1M R614 1M C215 2.2
R117 1k
7.3 -7.3 1.8 1.8 1.9

Q618 2SD1622
R683 470 REG
C6044 0.001
R6008 4.7
D605 MTZJ5.6B
C6046 1000 16V
D6006 EC10DS2
D6003 EC10DS2
D6004 EC10DS2
C629 100 25V
C6017 100p C6016 100p C6018 0.1 C6019 100p
R644 100
C6040 0.1
C6039 0.1
R690 100

CN607
BIAS
REC L
REC R
RELAY

CN605
A GND
PB L
7.5V
PB R
-7.5V
REC L
GND
REC R
POWER ON/OFF
AC 9V
M GND
AC 9V
AUB
TO AMP SECTION

C6014 100p
C6015 100p
C6041 0.1

【LEAF SW (A) BOARD】

CN601 CNP81
SHUT
5V
HALF
70EQ
METAL
GND
STOP SW
C6023 47 16V
IC81 NJL5165K ROTATION DET
R84 1k R85 180
S86 HALF
S82 70 EQ
S81 STOP

【LEAF SW (B) BOARD】

CN603 CNP81
SHUT
5V
HALF
70EQ
METAL
GND
STOP SW
IC81 NJL5165K ROTATION DET
R84 1k R85 180 R83 1.3k R82 300 R81 560
S86 HALF
S85 REC B
S84 REC A
S83 METAL
S82 70 EQ
S81 STOP

【PANEL BOARD】

FL351
A PLAY
HIGH NORM CD SYNC
B REC PLAY
DOLBY NR B C OFF
AMS RELAY

R367 47k R368 47k R369 47k R371 1k
R378 100 R379 100 R380 100 R381 100

S358 DOLBY NR RESET OFF B
S357 DECK A
S356 DECK B
S355 S366 REC
S353 S352 S351 CD SYNCHRO
R357 1.8k R356 1.0k R355 680 R354 470 R353 330 R352 220 R351 150

S368 DIRECTION RELAY
S354 S365 S364 S363 NORMAL SPEED S361 HIGH SPEED S362
R365 5.6k R364 1k R363 680 R362 470 R361 330 R360 220 R359 150

D351 SEL2210S NORMAL SPEED
D352 SEL2210S HIGH SPEED
D353 SEL2210S CD SYNCHRO

C351 4.7 35V
C352 22 6.3V
C353 0.01
C354 0.01
R379 22k
R377 33k
X351 4.19MHz

IC351
FL DRIVE
LED DRIVE
IC351 HD614023F
VCC CLK DATA SYNC KEY A KEY B
INT(H) VDISP
RESET TEST OSC1 OSC2 GND
S0 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13
G6 G5 G1 G2 G3 G4
-10.7 (-15.2) -19.7 (-15.2) -19.7 (-15.2)

CN351

* NO MARK: FL NO DISPLAY
( ): FL DISPLAY

Note on Schematic Diagram :

- All capacitors are in μ F unless otherwise noted. pF : μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ⏦ : fusible resistor.

| Note: | Note: |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. |

- ▬▬ : B+ Line
- ▬ ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

  ▷ : PB (DECK A)
  ▷» : PB (DECK B)
  ▷» : REC (DECK B)

Note on Printed Wiring Boards :

- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.
- ▭ : Chip components extracted from the rear side.



## • SEMICONDUCTOR LOCATION

| Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|
| D31 | H−23 | Q51 | G−23 |
| D351 | K−3 | Q52 | G−24 |
| D352 | K−2 | Q53 | G−23 |
| D353 | K−4 | Q101 | B−10 |
| D601 | F−10 | Q102 | D−11 |
| D602 | E−2 | Q201 | B−10 |
| D603 | C−7 | Q202 | D−11 |
| D604 | B−7 | Q601 | F−10 |
| D605 | B−4 | Q602 | F−10 |
| D606 | B−7 | Q603 | F−11 |
| D607 | B−6 | Q604 | C−11 |
| D6003 | F−2 | Q605 | C−12 |
| D6004 | F−2 | Q606 | C−12 |
| D6005 | F−2 | Q607 | E−9 |
| D6006 | F−2 | Q608 | D−9 |
| D6007 | G−3 | Q609 | B−8 |
| D6008 | G−5 | Q611 | D−4 |
| D6009 | G−10 | Q612 | E−4 |
| D6010 | C−9 | Q613 | E−4 |
| D6011 | C−10 | Q616 | E−7 |
| D6012 | C−11 | Q617 | D−7 |
| | | Q618 | B−4 |
| IC101 | D−10 | Q619 | C−6 |
| IC102 | E−11 | Q620 | C−6 |
| IC103 | E−8 | Q6001 | G−4 |
| IC104 | D−12 | | |
| IC105 | D−12 | Q6002 | G−6 |
| | | Q6003 | G−11 |
| IC106 | C−12 | Q6004 | G−11 |
| IC351 | J−7 | Q6005 | C−6 |
| IC601 | C−8 | | |
| IC602 | D−5 | | |
| IC603 | C−1 | | |
| IC604 | E−3 | | |
| IC605 | E−5 | | |
| IC6001 | C−7 | | |

LEAF SW (A) BOARD

| Ref. No. | Location |
|---|---|
| IC81 | B−18 |

LEAF SW (B) BOARD

| Ref. No. | Location |
|---|---|
| IC81 | B−26 |

MD (A) BOARD

| Ref. No. | Location |
|---|---|
| IC31 | H−17 |
| Q71 | H−19 |

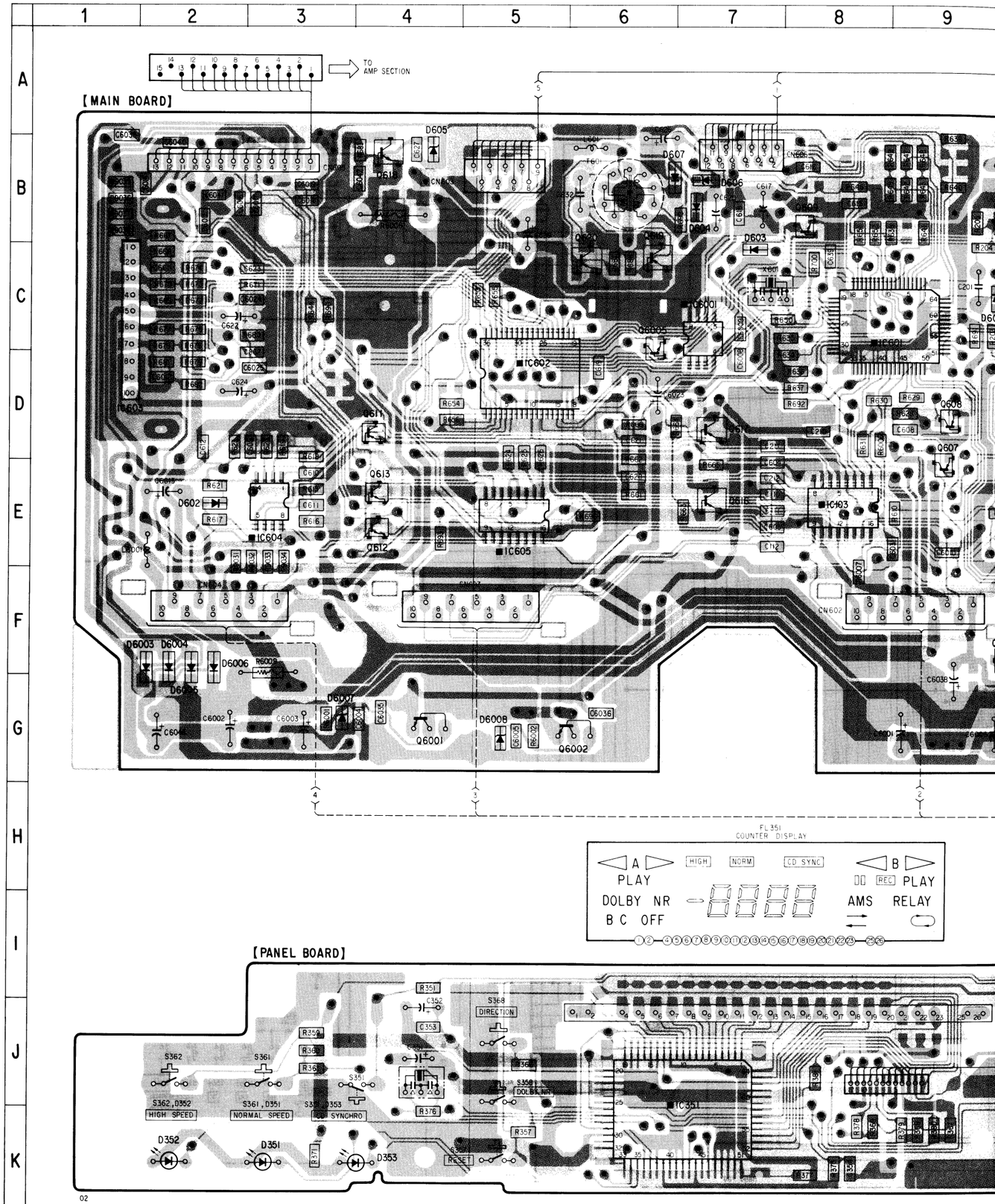
MD (B) BOARD

| Ref. No. | Location |
|---|---|
| IC31 | H−24 |
| Q71 | H−26 |



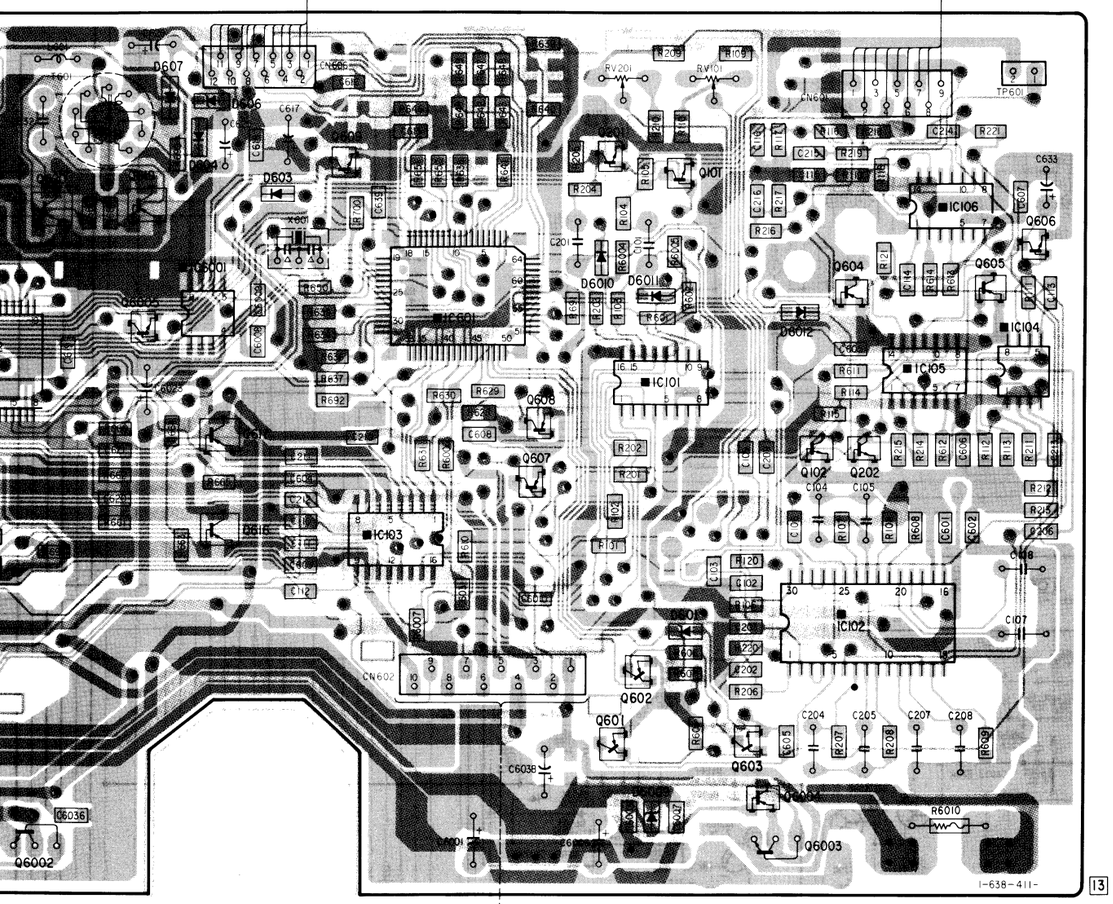
## 4-5. PRINTED WIRING BOARDS —AEP, UK, Germany, Australian Model—

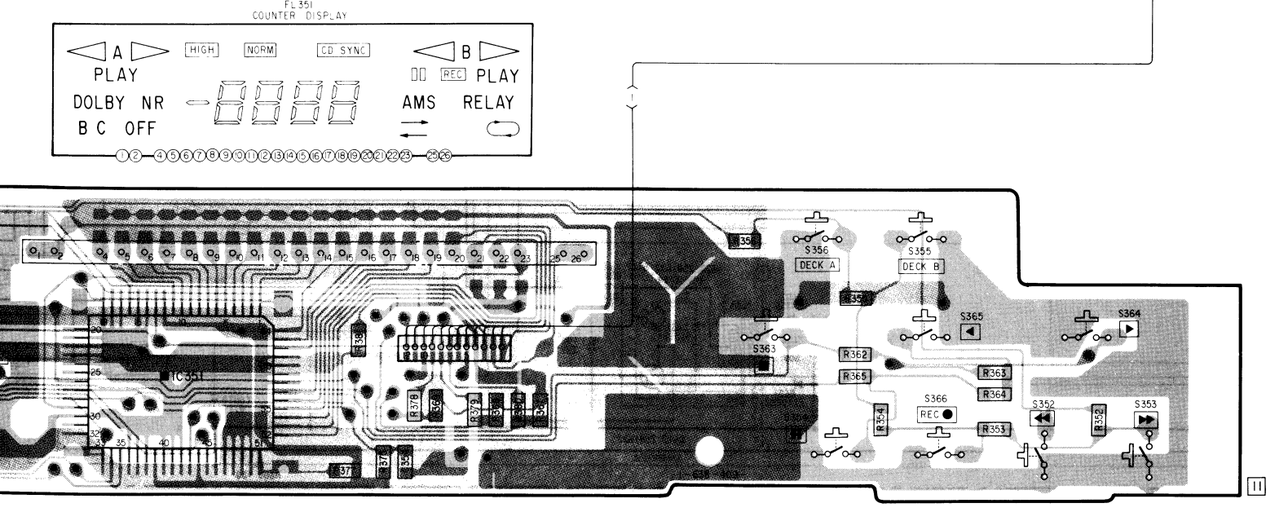
• Refer to page 10 for Semiconductor Lead Layouts.



• Refer to page 10 for Semiconductor Lead Layouts.

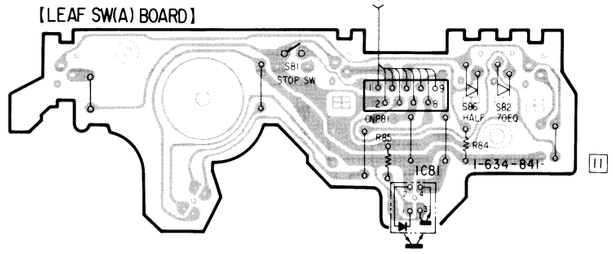
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

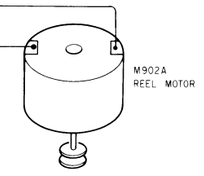


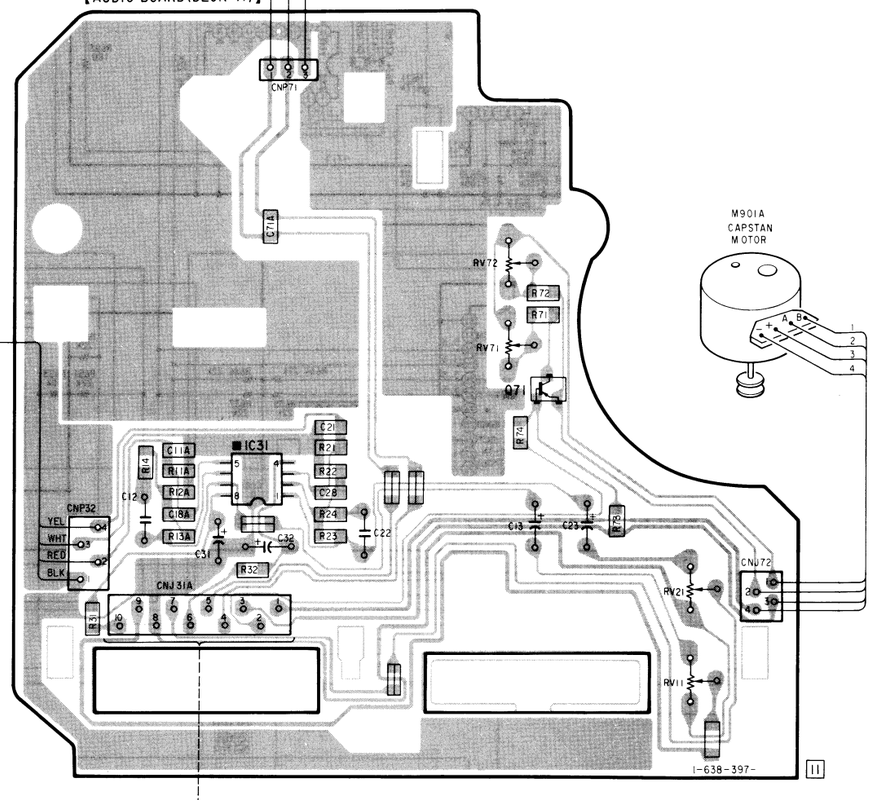



【LEAF SW(A) BOARD】

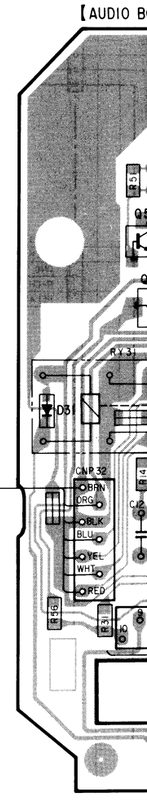


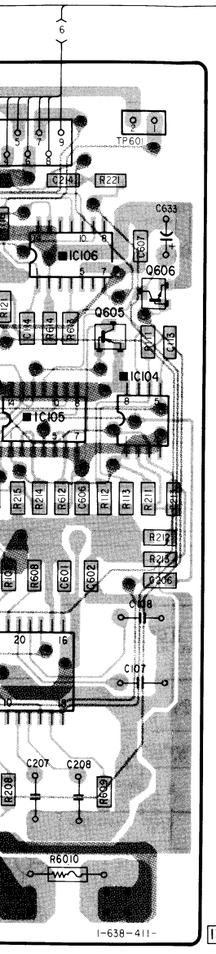

【AUDIO BOARD(DECK A)】

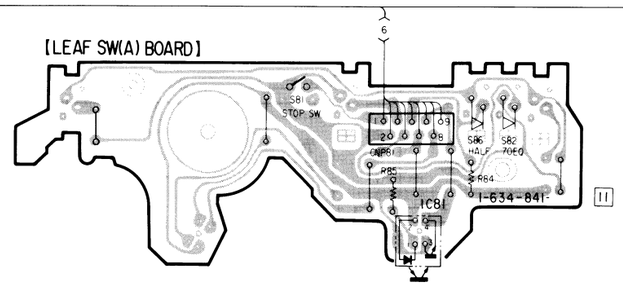


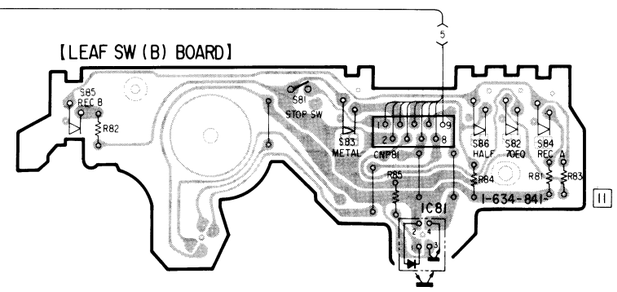

【AUDIO B

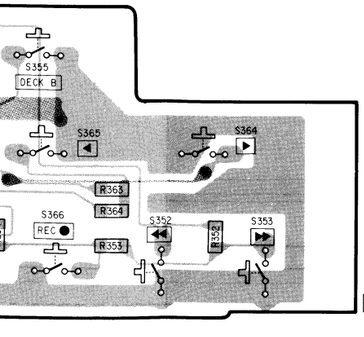


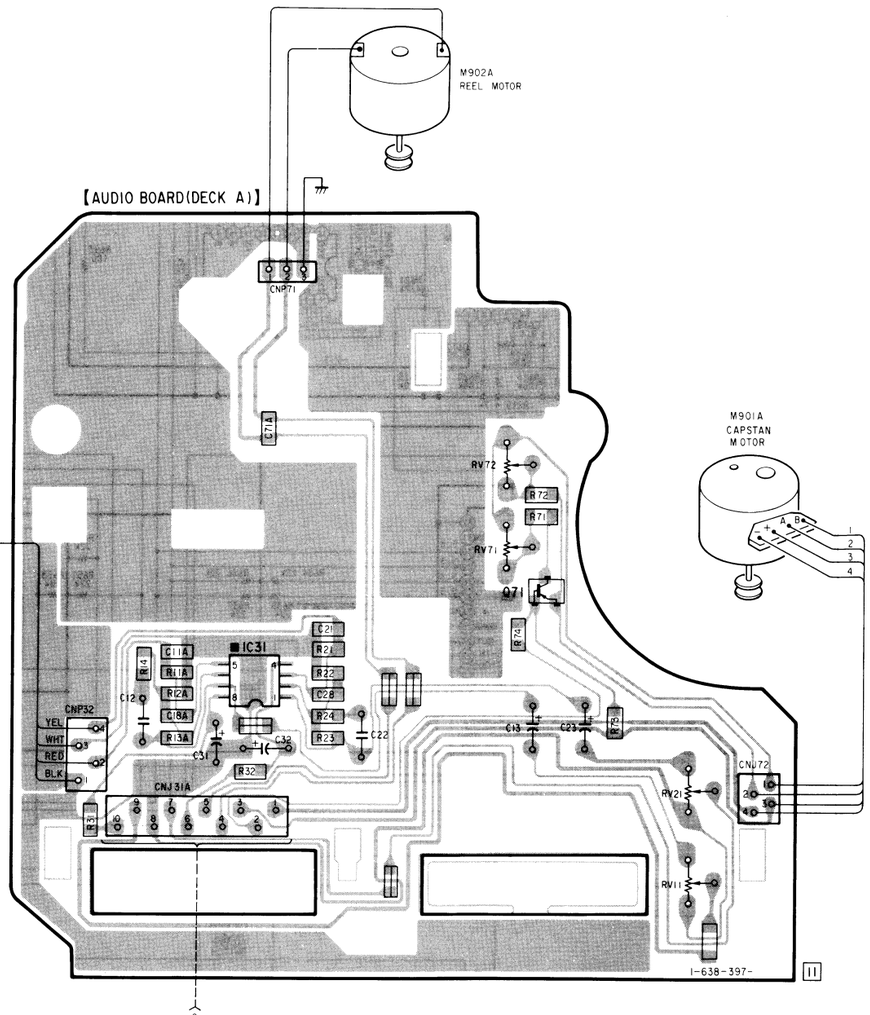

DECK - A

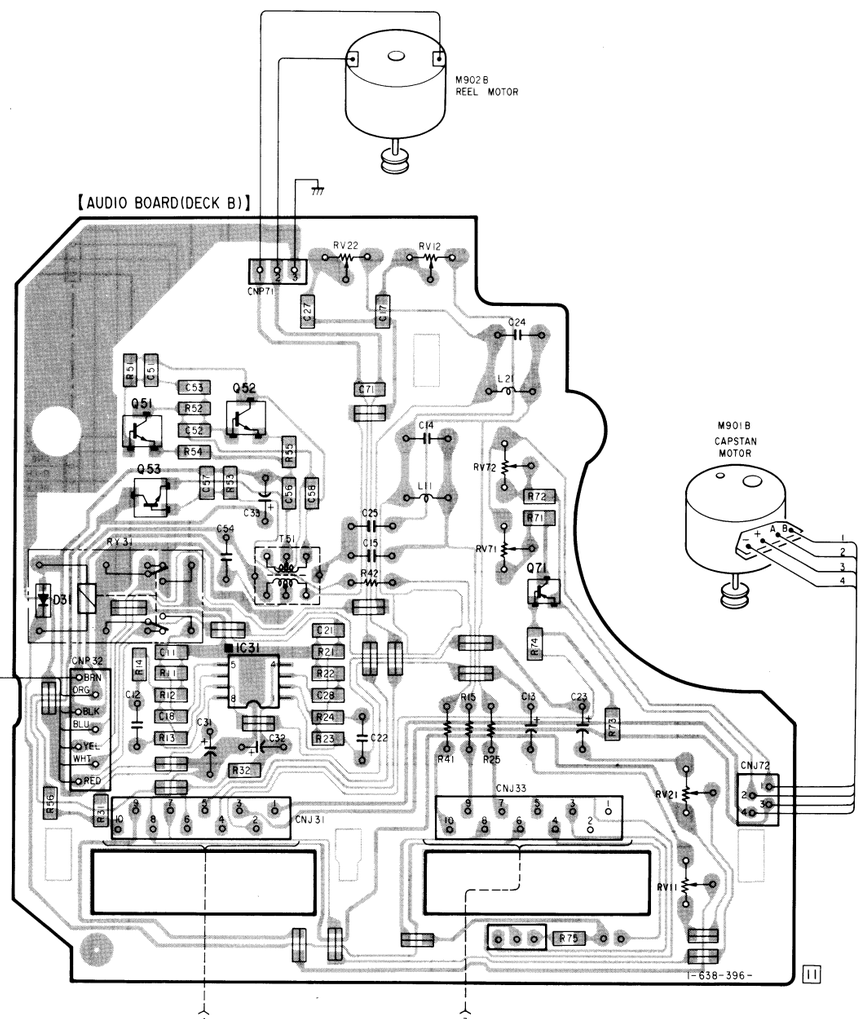

TP601
C633
IC106
Q606
Q605
IC104
IC105
C607
R221
R224
R604
R606
R208
R603
C207
C208
C107
C608
R6010
1-638-411-
13


【LEAF SW(A) BOARD】
S81
STOP SW
CNP81
S86
HALF
S82
70EQ
R85
R84
IC81
1-634-841-
11


【LEAF SW(B) BOARD】
S85
REC B
R82
S81
STOP SW
S83
METAL
CNP81
S86
HALF
S82
70EQ
S84
REC
R85
R84
R81
R83
IC81
1-634-841-
11


S355
DECK B
S365
S364
R363
R364
S366
REC
S352
S353
R352
R353
11


M902A
REEL MOTOR
【AUDIO BOARD(DECK A)】
CNP71
C11A
HP901
PLAYBACK HEAD
M901A
CAPSTAN
MOTOR
RV72
R72
R71
RV71
Q71
R74
IC31
C21
R21
R22
C28
R24
R23
C22
C12
C18A
R13A
C31
C36
R32
CNP32
YEL
WHT
RED
BLK
CNJ31A
R33
C13
C23
R75
CNJ72
RV21
RV11
1-638-397-
11


M902B
REEL MOTOR
【AUDIO BOARD(DECK B)】
CNP71
RV22
RV12
C27
C17
Q24
L21
R55
C51
C53
R52
Q52
Q51
C71
C14
R54
R35
C57
R33
C56
C58
C33
Q53
L11
C54
T51
C25
C15
R42
RV31
D51
HRP901/HE901
RECORD/PLAYBACK/ERASE
HEAD
M901B
CAPSTAN
MOTOR
RV72
R72
R71
RV71
Q71
R74
CNP32
BRN
ORG
BLK
BLU
YEL
WHT
RED
IC31
C21
R21
R22
C28
R24
R23
C22
C11
R11
R12
C18
R13
C31
C36
R32
R41
R25
C13
C23
R75
CNJ33
CNJ31
CNJ72
RV21
RV11
R75
1-638-396-
11

DECK-A

DECK-B

【AUDIO BOARD (DECK A)】

【AUDIO BOARD (DECK B)】

【MAIN BOARD】

IC31 IC31A μPC4570G2 PB EQ AMP

IC101 A/B DECK SWITCH

IC102 DOLBY NR

IC103 REC EQ

IC104 AF AMP

IC601 SYSTEM CONTROL

IC602 MD CONTROL

IC603 REEL MOTOR DRIVE

IC604 AMS AMP

IC605 REC EQ SWITCH

IC6001 RESET

for IC Block Diagrams.

12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33

IC102 DOLBY NR

IC103 REC EQ

IC104 AF AMP

IC105 PB OUTPUT SWITCH

IC106 REC AMP

IC604 RC4558BP5 AMS AMP

IC605 MC14052BF REC EQ SWITCH

IC603 REEL MOTOR DRIVE

IC602 M0 CONTROL

IC6001 RESET

【LEAF SW (A) BOARD】

【LEAF SW (B) BOARD】

TO AMP SECTION

24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

A B C D E F G H I J K L M

IC106
REC AMP

R116 22k IC106 BA3308F R216 22k
C6013 100 25V
R118 220k C607 1 R218 220k
R119 4.7k C633 22 16V C215 2.2
Q606 2SC3395 PB/REC
R613 1M R614 1M
C216 100p R219 4.7k C115 2.2 C116 100p R117 1k R217 1k

【LEAF SW(A) BOARD】

CN601 CNP81
SHUT
5V
HALF
70EQ
METAL
GND
STOP SW
C6023 100 25V
IC81 NJL5165K ROTATION DET
R84 1k R85 180
S86 HALF
S82 70 EQ
S81 STOP

【LEAF SW(B) BOARD】

CN603 CNP81
SHUT
5V
HALF
70EQ
METAL
GND
STOP SW
IC81 NJL5165K ROTATION DET
R84 1k R85 180 R83 1.5k R82 300 R81 560
S86 HALF
S85 REC B
S84 REC A
S83 METAL
S82 70 EQ
S81 STOP

Q618 2SB1622 R683 REG 470
C6042 0.001 C6046 1000 16V C627 0.1 R6008 4.7
D6005 DA227-5B D6005 EC10BS2 D6006 EC10BS2 D6003 EC10BS2 D6004 EC10BS2

BIAS
REC L
REC R
RELAY
CN607
CN605
A GND
PB L
7.5V
PB R
-7.5V
REC L
Ð GNÐ
REC R
POWER ON/OFF
AC 9V
M GNÐ
AC 9V
AUB
TO AMP SECTION
C6014 100p C6015 100p C6041 0.1 C6040 0.1 C6039 0.1
C6017 100p C6016 100p C6018 0.1 C6019 100p
R644 100 R690 100
C629 100 25V

【PANEL BOARD】

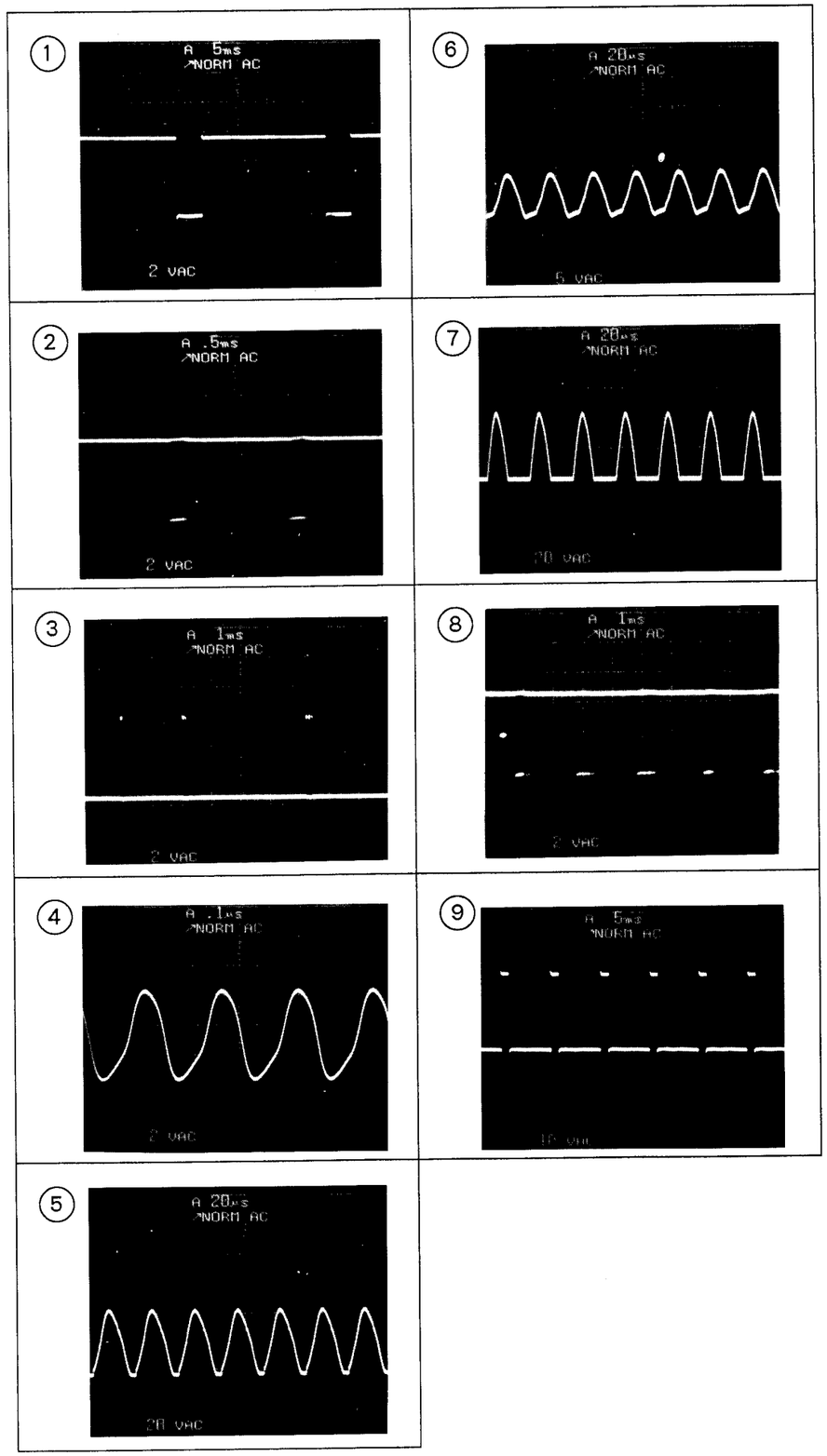
FL351
A PLAY
ÐOLBY NR B C OFF
HIGH NORM CD SYNC
B REC PLAY
AMS RELAY

R357 5.6k R356 1.0k R355 680 R354 470 R353 330 R352 220 R351 150
S358 ÐOLBY NR OFF B.C
S357 RESET
S356 ÐECK A
S355 ÐECK B
S366 REC
S353 ▷▷
S352 ◁◁
S351 CD SYNCHRO

R365 5.6k R364 1k R363 680 R362 470 R361 330 R360 220 R359 150
S368 DIRECTION RELAY
S354 ▷▷
S365 ◁
S364 ▷
S363 □
S361 NORMAL SPEED
S362 HIGH SPEED

R367 47k R368 47k R369 47k R371 1k R378 100 R380 100 R379 100
C351 4.7 35V
IC351 FL DRIVE LED DRIVE
C352 22 6.3V C353 0.01
IC351 HD614023F
VCC CLK DATA SYNC KEY A KEY B
INT(4) VDISP
D351 SEL22105 NORMAL SPEED
D352 SEL22105 HIGH SPEED
D353 SEL22105 CD SYNCHRO
HIGH SPEED CD SYNC
RESET TEST OSC1 OSC2 GND
C354 0.01 R375 22k R376 1M R377 33k
X351 4.19MHz
R381 100
CN351
S0 S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 G6 G5 G1 G2 G3 G4
-19.7 (-15.2)
* NO MARK: FL NO DISPLAY
( ): FL DISPLAY

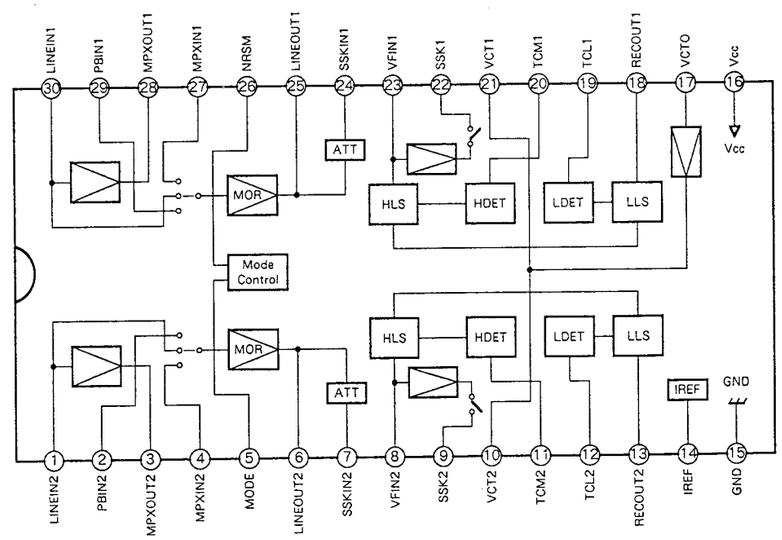
• WAVEFORMS



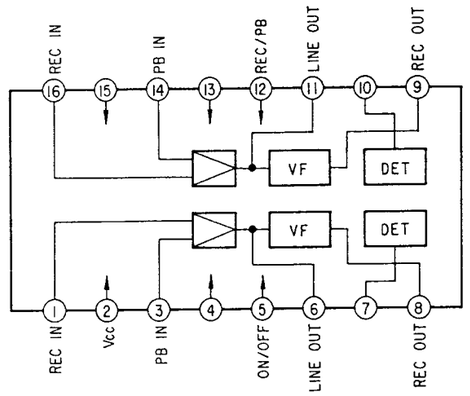



• IC BLOCK DIAGRAMS

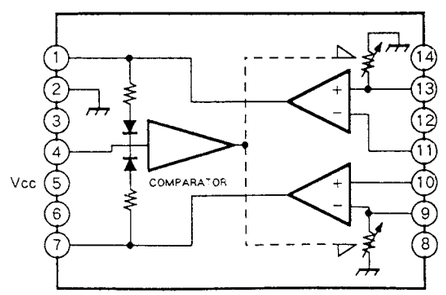
IC102 CXA1331M : AEP, UK, Germany, Australian Model



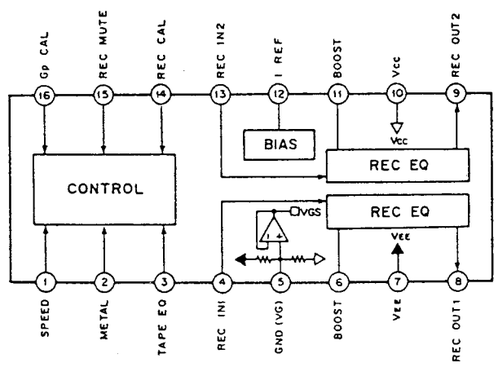

IC102 CXA1101M : US, Canadian, E Model




IC106 BA3308F




IC103 CXA1398M

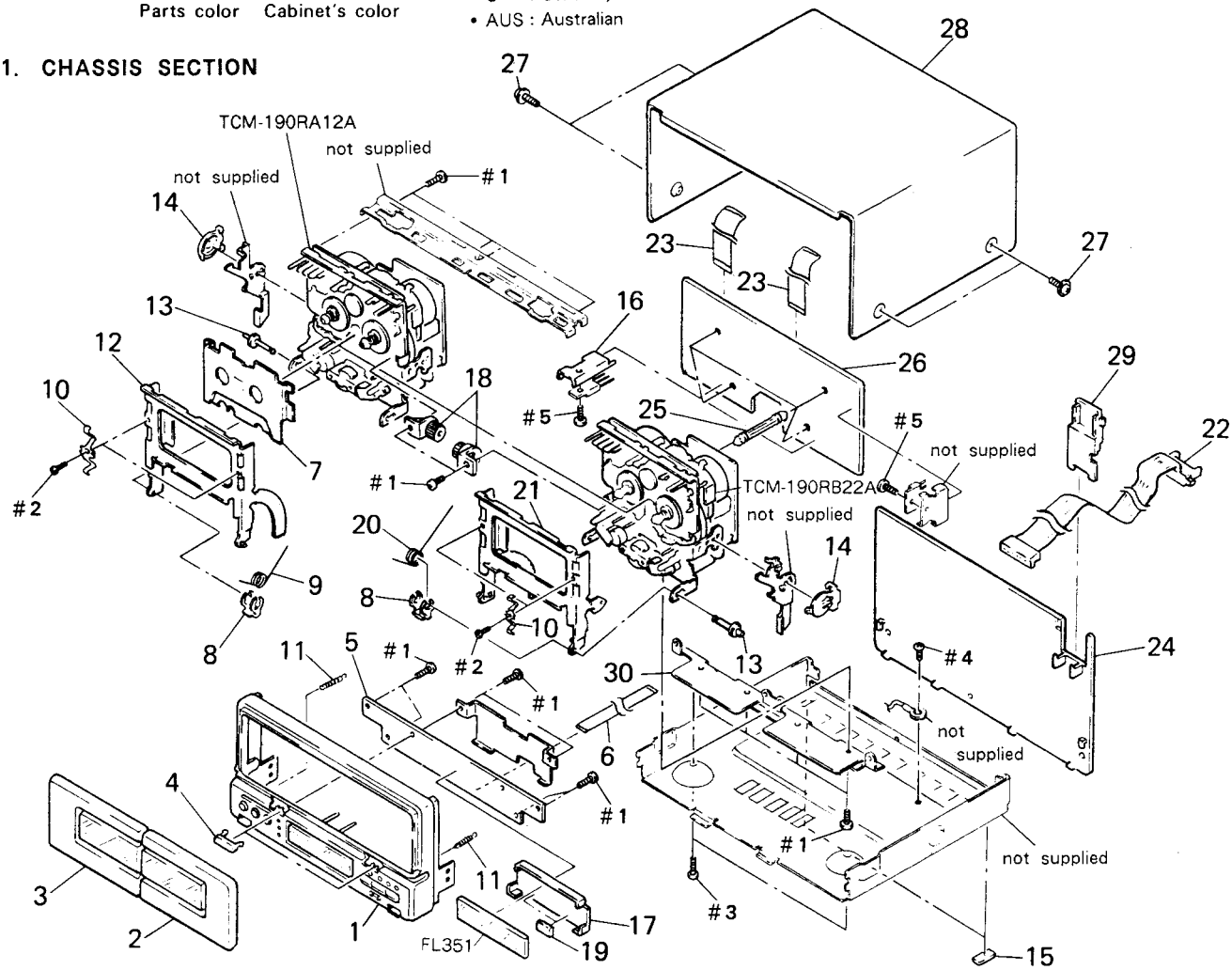


# SECTION 5
# EXPLODED VIEWS

NOTE:

- −XX, −X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)....(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
  - G : Germany
  - AUS : Australian

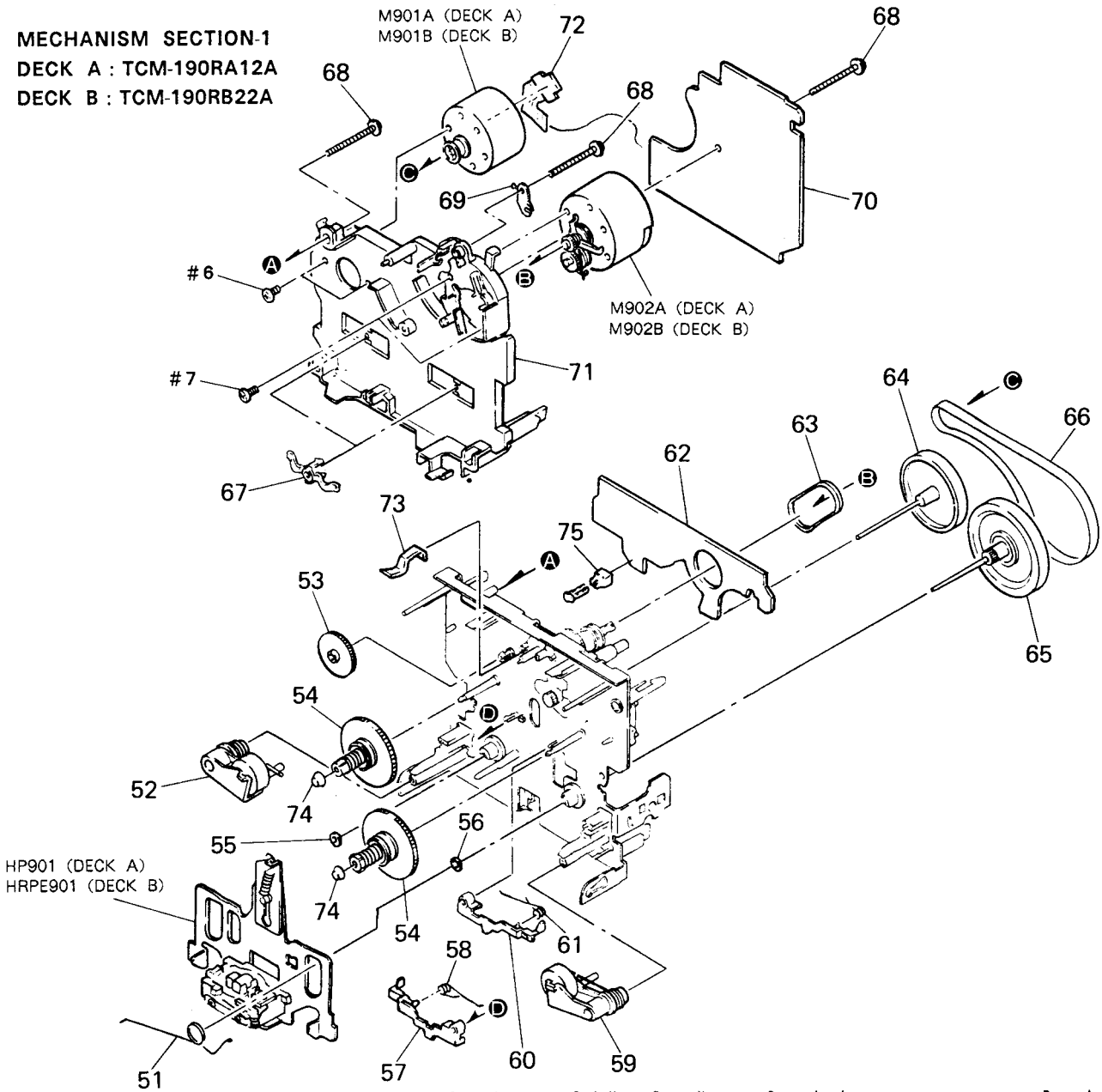
## 5-1. CHASSIS SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | X-3362-860-1 | PANEL ASSY, FRONT | |
| 2 | X-3362-859-1 | LID (B) ASSY, CASSETTE (US, Canadian, E) | |
| 2 | X-4941-577-1 | LID (B) ASSY, CASSETTE (AEP, UK, G, AUS) | |
| 3 | X-3362-858-1 | LID (A) ASSY, CASSETTE | |
| 4 | 3-367-718-01 | COVER (AZIMUTH) | |
| 5 | * A-2006-424-A | PANEL BOARD, COMPLETE (AEP, UK, G, AUS) | |
| 5 | * A-2006-426-A | PANEL BOARD, COMPLETE (US, Canadian, E) | |
| 6 | 1-590-904-11 | WIRE, FLAT TYPE (12 CORE) | |
| 7 | 3-367-711-01 | RETAINER, CASSETTE | |
| 8 | 3-367-720-01 | RING (W), RETAINING | |
| 9 | 3-354-959-01 | SPRING (LOADING L), TORSION | |
| 10 | 3-340-137-01 | SPRING, CASSETTE RETAINER | |
| 11 | 3-489-099-11 | SPRING, TENSION | |
| 12 | X-3362-857-1 | HOLDER (L) ASSY, CASSETTE | |
| 13 | 3-367-721-01 | SHAFT (FULCRUM SHAFT) | |
| 14 | 3-354-957-01 | JOINT (LOCK LEVER) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 15 | 4-930-336-01 | FOOT (FELT) | |
| 16 | * 3-309-144-21 | HEAT SINK | |
| 17 | * 3-367-839-01 | HOLDER, FL TUBE | |
| 18 | 3-354-963-01 | DAMPER | |
| 19 | * 4-932-810-11 | CUSHION (FL) | |
| 20 | 3-354-960-01 | SPRING (LOADING R), TORSION | |
| 21 | X-3362-856-1 | HOLDER (R) ASSY, CASSETTE | |
| 22 | 1-590-579-11 | CORD (WITH CONNECTOR) | |
| 23 | 1-590-902-11 | WIRE, FLAT TYPE (9 CORE) | |
| 24 | * 3-367-730-01 | PANEL, BACK | |
| 25 | * 3-682-419-21 | HOLDER, P.C.B | |
| 26 | * A-2006-423-A | MAIN BOARD, COMPLETE (AEP, UK, G, AUS) | |
| 26 | * A-2006-425-A | MAIN BOARD, COMPLETE (US, Canadian, E) | |
| 27 | 3-704-366-01 | SCREW (CASE) (M3X8) | |
| 28 | * 4-944-213-01 | CASE | |
| 29 | * 4-930-344-01 | HOLDER (CONNECTION CORD) | |
| 30 | * 3-367-724-01 | JOINT (LOWER) | |
| FL351 | 1-519-638-11 | INDICATOR TUBE, FLUORESCENT | |

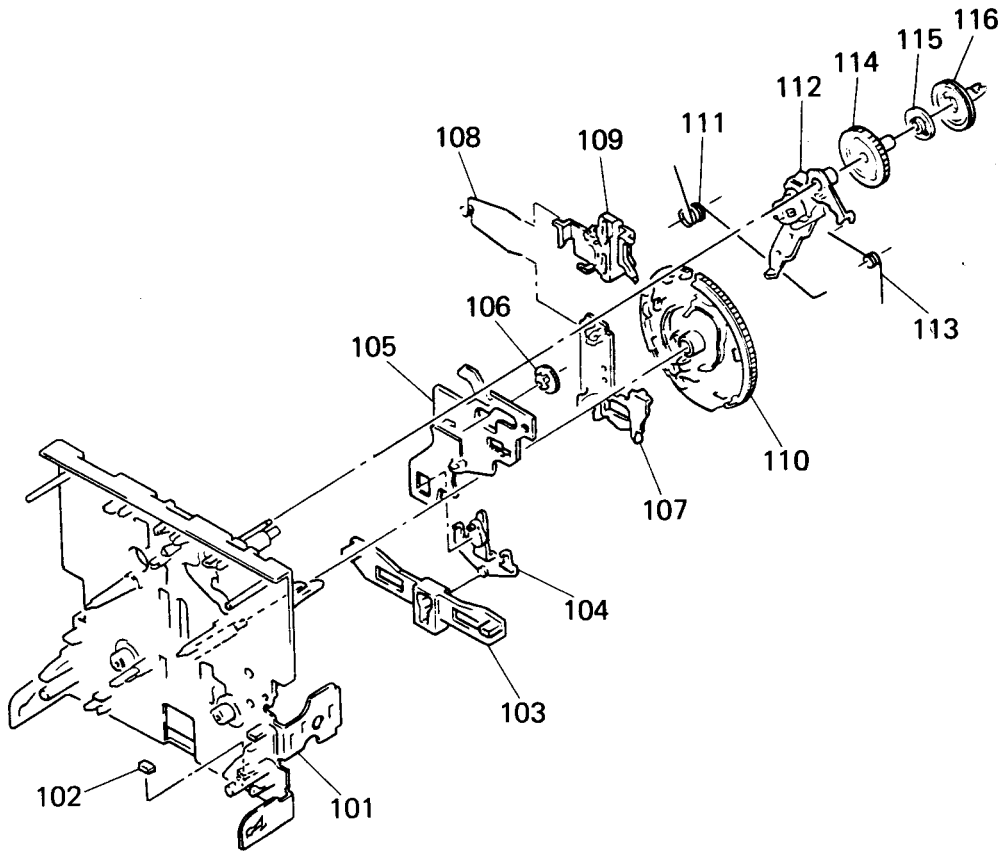
## 5-2. MECHANISM SECTION-1
**DECK A : TCM-190RA12A**
**DECK B : TCM-190RB22A**




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-359-455-01 | SPRING, TORSION | |
| 52 | X-3359-409-1 | LEVER (PINCH LEVER REV) ASSY | |
| 53 | 3-359-424-01 | GEAR (REV GEAR) | |
| 54 | X-3359-404-1 | TABLE ASSY, REEL | |
| 55 | 3-356-714-01 | WASHER | |
| 56 | 3-356-713-01 | WASHER | |
| 57 | 3-354-956-01 | LEVER (EJ SAFTY LEVER R) | |
| 58 | 3-354-962-01 | SPRING (EJ SAFTY SPRING R) | |
| 59 | X-3359-408-1 | LEVER (PINCH LEVER FWD) ASSY | |
| 60 | 3-354-955-01 | LEVER (EJ SAFTY LEVER L) | |
| 61 | 3-354-961-01 | SPRING (EJ SAFTY SPRING L) | |
| 62 | * 1-634-841-11 | LEAF SW (A), (B) BOARD | |
| 63 | 3-359-466-01 | BELT (FR), SQUARE | |
| 64 | X-3359-410-1 | FLYWHEEL (REV) ASSY | |
| 65 | X-3359-406-1 | FLYWHEEL (FWD) COMPLETE ASSY | |
| 66 | 3-359-417-01 | BELT (FLAT), CAPSTAN | |
| 67 | 3-575-321-00 | RETAINER, THRUST, CAPSTAN | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 68 | 3-359-414-01 | SCREW (+PTPWH 2X23) | |
| 69 | 3-359-450-01 | PLATE, GROUND | |
| 70 | * A-2006-399-A | MOUNTED PCB (RA12A), AUDIO (DECK A) | |
| 70 | * A-2006-400-A | MOUNTED PCB (RB22A), AUDIO (DECK B) | |
| 71 | * 3-359-436-01 | BASE (THRUST RETAINER), FITTING | |
| 72 | 1-638-983-11 | PC BOARD, MOTOR FLEXIBLE | |
| 73 | 3-359-430-01 | SPRING (CASSETTE RETAINER), LEAF | |
| 74 | 3-362-308-01 | CAP (REEL) | |
| 75 | 3-343-419-01 | HOLDER (S SENSER A) | |
| HP901 | A-2003-837-A | BASE ASSY, HEAD (DECK A) | |
| HRPE901 | A-2003-838-A | BASE ASSY, HEAD (DECK B) | |
| M901A | X-3359-417-1 | MOTOR ASSY, CAPSTAN | |
| M901B | X-3359-417-1 | MOTOR ASSY, CAPSTAN | |
| M902A | X-3363-501-1 | MOTOR ASSY, REEL | |
| M902B | X-3363-501-1 | MOTOR ASSY, REEL | |

## 5-3. MECHANISM SECTION-2




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | X-3359-415-1 | CHASSIS ASSY, MECHANICAL | |
| 102 | 3-359-469-01 | SPACER | |
| 103 | * 3-359-425-01 | SLIDER (REVERSE SLIDER) | |
| 104 | 3-359-426-01 | LEVER (REVERSE LEVER) | |
| 105 | * 3-359-415-01 | SLIDER (TRIGGER SLIDER) | |
| 106 | 3-359-448-01 | GEAR (TRIGGER) | |
| 107 | * 3-359-427-01 | SLIDER (LEVERSE SLIDER) | |
| 108 | 3-359-454-01 | SPRING, TORSION | |
| 109 | 3-359-429-01 | SLIDER (BRAKE PLATE) | |
| 110 | 3-359-420-01 | GEAR (CAM GEAR) | |
| 111 | 3-359-456-01 | SPRING (TRIGGER SPRING), TORSION | |
| 112 | X-3359-405-1 | LEVER (FR ARM) ASSY | |
| 113 | 3-359-453-01 | SPRING (FR ARM), TORSION | |
| 114 | 3-359-419-01 | GEAR (FR GEAR) | |
| 115 | 3-359-421-01 | CLUTCH (REEL DISK) | |
| 116 | 3-359-418-01 | PULLEY (FR PULLEY) | |

# SECTION 6
# ELECTRICAL PARTS LIST

**LEAF SW(A)** **LEAF SW(B)** **MAIN**

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- −XX, −X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA....: μA...., uPA....: μPA....
  uPB....: μPB...., uPC....: μPC....
  uPD....: μPD....
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- G : Germany
- AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | * 1-634-841-11 | LEAF SW (A) BOARD | | | |
| | | ********** | | | |
| | 3-343-419-01 | HOLDER (S SENSER A) | | | |
| | | < CONNECTOR > | | | |
| CNP81 | * 1-568-852-11 | SOCKET, CONNECTOR 9P | | | |
| | | < IC > | | | |
| IC81 | 8-719-710-03 | IC PHOTO REFLECTOR NJL5165K-B | | | |
| | | < RESISTOR > | | | |
| R84 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R85 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W |
| | | < SWITCH > | | | |
| S81 | 1-571-958-11 | SWITCH, PUSH (1 KEY) (STOP) | | | |
| S82 | 1-571-281-21 | SWITCH, LEAF (70EQ) | | | |
| S86 | 1-571-281-21 | SWITCH, LEAF (HALF) | | | |

**********

| | | | | | |
|---|---|---|---|---|---|
| | * 1-634-841-11 | LEAF SW (B) BOARD | | | |
| | | ********** | | | |
| | 3-343-419-01 | HOLDER (S SENSER A) | | | |
| | | < CONNECTOR > | | | |
| CNP81 | * 1-568-852-11 | SOCKET, CONNECTOR 9P | | | |
| | | < IC > | | | |
| IC81 | 8-719-710-03 | IC PHOTO REFLECTOR NJL5165K-B | | | |
| | | < RESISTOR > | | | |
| R81 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R82 | 1-247-818-11 | CARBON | 300 | 5% | 1/4W |
| R83 | 1-247-834-11 | CARBON | 1.3K | 5% | 1/4W |
| R84 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R85 | 1-249-408-11 | CARBON | 180 | 5% | 1/4W |
| | | < SWITCH > | | | |
| S81 | 1-571-958-11 | SWITCH, PUSH (1 KEY) (STOP) | | | |
| S82 | 1-571-281-21 | SWITCH, LEAF (70EQ) | | | |
| S83 | 1-571-281-21 | SWITCH, LEAF (METAL) | | | |
| S84 | 1-571-281-21 | SWITCH, LEAF (REC A) | | | |
| S85 | 1-571-281-21 | SWITCH, LEAF (REC B) | | | |
| S86 | 1-571-281-21 | SWITCH, LEAF (HALF) | | | |

**********

| | | | | | |
|---|---|---|---|---|---|
| | * A-2006-423-A | MAIN BOARD, COMPLETE (AEP, UK, G, AUS) | | | |
| | * A-2006-425-A | MAIN BOARD, COMPLETE (US, Canadian, E) | | | |
| | | ********** | | | |
| | * 3-309-144-21 | HEAT SINK | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-136-158-00 | FILM | 0.027uF | 5% | 50V |
| C102 | 1-163-013-11 | CERAMIC CHIP | 0.0022uF | 10% | 25V (US, Canadian, E) |
| C102 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V (AEP, UK, G, AUS) |
| C103 | 1-163-013-11 | CERAMIC CHIP | 0.0022uF | 10% | 25V (US, Canadian, E) |
| C103 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V (AEP, UK, G, AUS) |

# MAIN

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C104 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V (AEP, UK, G, AUS) | |
| C105 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V (AEP, UK, G, AUS) | |
| C106 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C107 | 1-124-254-00 | ELECT | 0.68uF | 20% | 50V (US, Canadian, E) | |
| C107 | 1-136-174-00 | FILM | 0.56uF | 5% | 50V (AEP, UK, G, AUS) | |
| C108 | 1-136-171-00 | FILM | 0.33uF | 5% | 50V (AEP, UK, G, AUS) | |
| C109 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C110 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C111 | 1-164-005-11 | CERAMIC CHIP | 0.47uF | | 25V | |
| C112 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C113 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C114 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C115 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C116 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C201 | 1-136-158-00 | FILM | 0.027uF | 5% | 50V | |
| C202 | 1-163-013-11 | CERAMIC CHIP | 0.0022uF | 10% | 25V (US, Canadian, E) | |
| C202 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V (AEP, UK, G, AUS) | |
| C203 | 1-163-013-11 | CERAMIC CHIP | 0.0022uF | 10% | 25V (US, Canadian, E) | |
| C203 | 1-164-161-11 | CERAMIC CHIP | 0.0022uF | 10% | 100V (AEP, UK, G, AUS) | |
| C204 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V (AEP, UK, G, AUS) | |
| C205 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V (AEP, UK, G, AUS) | |
| C206 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C207 | 1-124-254-00 | ELECT | 0.68uF | 20% | 50V (US, Canadian, E) | |
| C207 | 1-136-174-00 | FILM | 0.56uF | 5% | 50V (AEP, UK, G, AUS) | |
| C208 | 1-136-171-00 | FILM | 0.33uF | 5% | 50V (AEP, UK, G, AUS) | |
| C209 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C210 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C211 | 1-164-005-11 | CERAMIC CHIP | 0.47uF | | 25V | |
| C212 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C213 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C214 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C215 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V | |
| C216 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C601 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C602 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C603 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C604 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C605 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C606 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C607 | 1-164-346-11 | CERAMIC CHIP | 1uF | | | 16V |
| C608 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | | 16V |
| C609 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V | |
| C610 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C611 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C612 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V | |
| C615 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C616 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V | |
| C617 | 1-124-478-11 | ELECT | 100uF | 20% | 25V | |
| C618 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C619 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V | |
| C620 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C621 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C622 | 1-124-478-11 | ELECT | 100uF | 20% | 25V | |
| C623 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C624 | 1-124-478-11 | ELECT | 100uF | 20% | 25V | |
| C625 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C626 | 1-124-907-11 | ELECT | 10uF | 20% | 50V | |
| C627 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C629 | 1-124-478-11 | ELECT | 100uF | 20% | 25V | |
| C632 | 1-136-594-11 | FILM | 0.018uF | 5% | 100V | |
| C633 | 1-124-234-00 | ELECT | 22uF | 20% | 16V | |
| C639 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C862 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6001 | 1-124-360-00 | ELECT | 1000uF | 20% | 16V | |
| C6002 | 1-124-360-00 | ELECT | 1000uF | 20% | 16V | |
| C6003 | 1-124-360-00 | ELECT | 1000uF | 20% | 16V | |
| C6004 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6005 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6006 | 1-124-360-00 | ELECT | 1000uF | 20% | 16V | |
| C6007 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6008 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6009 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6010 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6011 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V | |
| C6012 | 1-163-129-00 | CERAMIC CHIP | 330PF | 5% | 50V | |
| C6013 | 1-124-478-11 | ELECT | 100uF | 20% | 25V | |
| C6014 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C6015 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C6016 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C6017 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C6018 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V | |
| C6019 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C6023 | 1-123-332-00 | ELECT | 47uF | 20% 16V (US, Canadian, E) | |
| C6023 | 1-124-478-11 | ELECT | 100uF | 20% 25V (AEP, UK, G, AUS) | |
| C6024 | 1-124-478-11 | ELECT | 100uF | 20% 25V (US, Canadian, E) | |
| C6024 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V (AEP, UK, G, AUS) | |
| C6025 | 1-124-478-11 | ELECT | 100uF | 20% 25V (US, Canadian, E) | |
| C6025 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V (AEP, UK, G, AUS) | |
| C6031 | 1-164-346-11 | CERAMIC CHIP | 1uF | 16V | |
| C6035 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | 25V | |
| C6036 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | 25V | |
| C6038 | 1-124-907-11 | ELECT | 10uF | 20% 50V | |
| C6039 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | 25V | |
| C6040 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | 25V | |
| C6041 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | 25V | |
| C6042 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% 50V (AEP, UK, G, AUS) | |
| C6042 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V (US, Canadian, E) | |
| C6043 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V (US, Canadian, E) | |
| C6044 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% 50V (US, Canadian, E) | |
| C6046 | 1-124-360-00 | ELECT | 1000uF | 20% 16V | |
| | | < CONNECTOR > | | | |
| CN602 | 1-580-783-11 | CONNECTOR, BOARD TO BOARD | | | |
| CN604 | 1-580-783-11 | CONNECTOR, BOARD TO BOARD | | | |
| CN606 | 1-568-795-11 | SOCKET, CONNECTOR 12P | | | |
| CN607 | 1-580-783-11 | CONNECTOR, BOARD TO BOARD | | | |
| | | < DIODE > | | | |
| D601 | 8-719-977-26 | DIODE DTZ10 (AEP, UK, G, AUS) | | | |
| D602 | 8-719-988-62 | DIODE 1SS355 | | | |
| D603 | 8-719-988-62 | DIODE 1SS355 | | | |
| D604 | 8-719-210-33 | DIODE EC10DS2 | | | |
| D605 | 8-719-977-16 | DIODE DTZ7.5B | | | |
| D606 | 8-719-977-00 | DIODE DTZ5.1C | | | |
| D607 | 8-719-988-62 | DIODE 1SS355 | | | |
| D6001 | 8-719-977-26 | DIODE DTZ10 (US, Canadian, E) | | | |
| D6002 | 8-719-977-26 | DIODE DTZ10 (US, Canadian, E) | | | |
| D6003 | 8-719-210-33 | DIODE EC10DS2 | | | |
| D6004 | 8-719-210-33 | DIODE EC10DS2 | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D6005 | 8-719-210-33 | DIODE EC10DS2 | |
| D6006 | 8-719-210-33 | DIODE EC10DS2 | |
| D6007 | 8-719-977-04 | DIODE DTZ5.6C | |
| D6008 | 8-719-977-04 | DIODE DTZ5.6C | |
| D6009 | 8-719-977-16 | DIODE DTZ7.5B | |
| D6010 | 8-719-988-62 | DIODE 1SS355 | |
| D6011 | 8-719-988-62 | DIODE 1SS355 | |
| D6012 | 8-719-988-62 | DIODE 1SS355 | |
| | | < IC > | |
| IC101 | 8-759-300-71 | IC HD14053BFP | |
| IC102 | 8-752-037-90 | IC CXA1331M (AEP, UK, G, AUS) | |
| IC102 | 8-752-050-13 | IC CXA1101M (US, Canadian, E) | |
| IC103 | 8-752-056-00 | IC CXA1398M | |
| IC104 | 8-759-981-95 | IC RC4558-S | |
| IC105 | 8-759-516-47 | IC CD4066BCM | |
| IC106 | 8-759-998-71 | IC BA3308F | |
| IC601 | 8-759-636-37 | IC M50944-121FP | |
| IC602 | 8-759-636-67 | IC M50925-482FP | |
| IC603 | 8-759-207-05 | IC TA7272P | |
| IC604 | 8-759-981-95 | IC RC4558-S | |
| IC605 | 8-759-516-41 | IC CD4052BCM (US, Canadian, E) | |
| IC605 | 8-759-009-06 | IC MC14052BF (AEP, UK, G, AUS) | |
| IC6001 | 8-759-634-43 | IC M51953BFP | |
| | | < COIL > | |
| L601 | 1-410-761-11 | INDUCTOR 0.68mH | |
| L6001 | 1-410-482-31 | INDUCTOR 100uH | |
| | | < TRANSISTOR > | |
| Q101 | 8-729-805-41 | TRANSISTOR 2SC3398 | |
| Q102 | 8-729-805-42 | TRANSISTOR 2SC3859 | |
| Q201 | 8-729-805-41 | TRANSISTOR 2SC3398 | |
| Q202 | 8-729-805-42 | TRANSISTOR 2SC3859 | |
| Q601 | 8-729-805-65 | TRANSISTOR 2SA1344 (AEP, UK, G, AUS) | |
| Q602 | 8-729-805-65 | TRANSISTOR 2SA1344 (AEP, UK, G, AUS) | |
| Q603 | 8-729-805-41 | TRANSISTOR 2SC3398 (AEP, UK, G, AUS) | |
| Q604 | 8-729-805-65 | TRANSISTOR 2SA1344 | |
| Q605 | 8-729-805-69 | TRANSISTOR 2SA1341 | |
| Q606 | 8-729-805-45 | TRANSISTOR 2SC3395 | |
| Q607 | 8-729-805-65 | TRANSISTOR 2SA1344 | |
| Q608 | 8-729-805-65 | TRANSISTOR 2SA1344 | |

# MAIN

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q609 | 8-729-805-41 | TRANSISTOR 2SC3398 | |
| Q611 | 8-729-805-65 | TRANSISTOR 2SA1344 | |
| Q612 | 8-729-805-41 | TRANSISTOR 2SC3398 | |
| Q613 | 8-729-805-41 | TRANSISTOR 2SC3398 | |
| Q616 | 8-729-820-86 | TRANSISTOR 2SB1121-ST | |
| Q617 | 8-729-820-86 | TRANSISTOR 2SB1121-ST | |
| Q618 | 8-729-808-01 | TRANSISTOR 2SD1622-S | |
| Q619 | 8-729-808-01 | TRANSISTOR 2SD1622-S | |
| Q620 | 8-729-808-01 | TRANSISTOR 2SD1622-S | |
| Q6001 | 8-729-111-55 | TRANSISTOR 2SD1312-K | |
| Q6002 | 8-729-111-55 | TRANSISTOR 2SD1312-K | |
| Q6003 | 8-729-111-55 | TRANSISTOR 2SD1312-K | |
| Q6004 | 8-729-600-22 | TRANSISTOR 2SA1235-F | |
| Q6005 | 8-729-805-41 | TRANSISTOR 2SC3398 | |
| | | < RESISTOR > | |
| R101 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | |
| R102 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | |
| R103 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R104 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R105 | 1-216-077-00 | METAL CHIP 15K 5% 1/10W | |
| R106 | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W | |
| R107 | 1-216-082-00 | METAL GLAZE 24K 5% 1/10W | (AEP, UK, G, AUS) |
| R108 | 1-216-043-00 | METAL CHIP 560 5% 1/10W | (AEP, UK, G, AUS) |
| R109 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R110 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R111 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |
| R112 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| R113 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | |
| R114 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R115 | 1-216-105-00 | METAL CHIP 220K 5% 1/10W | |
| R116 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | |
| R117 | 1-216-049-00 | METAL CHIP 1K 5% 1/10W | |
| R118 | 1-216-105-00 | METAL CHIP 220K 5% 1/10W | |
| R119 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| R120 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R121 | 1-216-093-00 | METAL CHIP 68K 5% 1/10W | |
| R201 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | |
| R202 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | |
| R203 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R204 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R205 | 1-216-077-00 | METAL CHIP 15K 5% 1/10W | |
| R206 | 1-216-061-00 | METAL CHIP 3.3K 5% 1/10W | |
| R207 | 1-216-082-00 | METAL GLAZE 24K 5% 1/10W | (AEP, UK, G, AUS) |
| R208 | 1-216-043-00 | METAL CHIP 560 5% 1/10W | (AEP, UK, G, AUS) |
| R209 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R210 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R211 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |
| R212 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| R213 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | |
| R214 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R215 | 1-216-105-00 | METAL CHIP 220K 5% 1/10W | |
| R216 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | |
| R217 | 1-216-049-00 | METAL CHIP 1K 5% 1/10W | |
| R218 | 1-216-105-00 | METAL CHIP 220K 5% 1/10W | |
| R219 | 1-216-065-00 | METAL CHIP 4.7K 5% 1/10W | |
| R220 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R221 | 1-216-093-00 | METAL CHIP 68K 5% 1/10W | |
| R601 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | |
| R602 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | |
| R603 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | (AEP, UK, G, AUS) |
| R603 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | (US, Canadian, E) |
| R605 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | (AEP, UK, G, AUS) |
| R605 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | (US, Canadian, E) |
| R606 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | (AEP, UK, G, AUS) |
| R606 | 1-216-089-00 | METAL CHIP 47K 5% 1/10W | (US, Canadian, E) |
| R607 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | (US, Canadian, E) |
| R607 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | (AEP, UK, G, AUS) |
| R608 | 1-216-049-00 | METAL CHIP 1K 5% 1/10W | (AEP, UK, G, AUS) |
| R608 | 1-216-088-00 | METAL CHIP 43K 5% 1/10W | (US, Canadian, E) |
| R609 | 1-216-083-00 | METAL CHIP 27K 5% 1/10W | (AEP, UK, G, AUS) |
| R611 | 1-216-073-00 | METAL CHIP 10K 5% 1/10W | |
| R612 | 1-216-081-00 | METAL CHIP 22K 5% 1/10W | |
| R613 | 1-216-121-00 | METAL CHIP 1M 5% 1/10W | |
| R614 | 1-216-121-00 | METAL CHIP 1M 5% 1/10W | |
| R615 | 1-216-057-00 | METAL CHIP 2.2K 5% 1/10W | |
| R616 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |
| R617 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |
| R618 | 1-216-097-00 | METAL CHIP 100K 5% 1/10W | |

# MAIN

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R619 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R620 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R621 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R623 | 1-216-113-00 | METAL CHIP | 470K | 5% | 1/10W |
| R624 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R625 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R626 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R628 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R629 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R630 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R631 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R634 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R635 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R636 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R637 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R638 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R639 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R640 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R641 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R642 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R643 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R644 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R645 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R646 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R647 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R648 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R649 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R650 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R651 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R652 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R653 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R654 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R655 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R656 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R661 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R662 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R663 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R664 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R665 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R666 | 1-216-045-00 | METAL CHIP | 680 | 5% | 1/10W |
| R667 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R668 | 1-216-090-00 | METAL CHIP | 51K | 5% | 1/10W |
| R669 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R670 | 1-216-084-00 | METAL GLAZE | 30K | 5% | 1/10W |
| R671 | 1-216-090-00 | METAL CHIP | 51K | 5% | 1/10W |
| R672 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R673 | 1-216-080-00 | METAL CHIP | 20K | 5% | 1/10W |
| R674 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R675 | 1-216-080-00 | METAL CHIP | 20K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R676 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R677 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R678 | 1-216-084-00 | METAL GLAZE | 30K | 5% | 1/10W |
| R679 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R680 | 1-216-090-00 | METAL CHIP | 51K | 5% | 1/10W |
| R681 | 1-216-090-00 | METAL CHIP | 51K | 5% | 1/10W |
| R682 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R683 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R686 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R687 | 1-216-077-00 | METAL CHIP | 15K | 5% | 1/10W |
| R690 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R691 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R692 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R693 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R696 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R699 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R700 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R6001 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R6002 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R6003 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R6004 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R6005 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R6006 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R6007 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R6008 ⚠ | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W F |
| R6009 ⚠ | 1-219-137-11 | FUSIBLE | 0.33 | 10% | 1/4W F |
| R6010 ⚠ | 1-219-137-11 | FUSIBLE | 0.33 | 10% | 1/4W F |
| R9031 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9032 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9033 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9034 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9035 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9036 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9037 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |
| R9038 | 1-216-298-00 | METAL CHIP | 2.2 | 5% | 1/10W |

< TRANSFORMER >

T601 1-450-458-11 TRANSFORMER, DC-DC CONVERTER

< TEST PIN >

TP601 * 1-564-517-11 PLUG, CONNECTOR 2P

< CERAMIC >

X601 1-577-358-21 VIBRATOR, CERAMIC

**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

**Note:**
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

# AUDIO(DECK A)

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | * A-2006-399-A | MOUNTED PCB, AUDIO (DECK A) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C11 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V |
| C12 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C13 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C18 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C21 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V |
| C22 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C23 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C28 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C31 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C32 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C71 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| | | < CONNECTOR > | | | |
| CNJ31 | * 1-580-782-11 | CONNECTOR, BOARD TO BOARD | | | |
| CNP32 | * 1-580-772-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| CNP71 | * 1-564-719-11 | PIN, CONNECTOR (SMALL TYPE) 3P | | | |
| CNP72 | * 1-580-411-11 | SOCKET, CONNECTOR 4P | | | |
| | | < IC > | | | |
| IC31 | 8-759-970-66 | IC LM833M | | | |
| | | < JUMPER > | | | |
| JW1 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W |
| JW51 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W |
| JW52 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W |
| JW53 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W |
| JW54 | 1-216-296-00 | METAL CHIP | 0 | 5% | 1/8W |
| | | < TRANSISTOR > | | | |
| Q71 | 8-729-602-36 | TRANSISTOR 2SA1602 | | | |
| | | < RESISTOR > | | | |
| R11 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W |
| R12 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R13 | 1-216-100-00 | METAL GLAZE | 130K | 5% | 1/10W |
| R14 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W |
| R21 | 1-216-099-00 | METAL CHIP | 120K | 5% | 1/10W |
| R22 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R23 | 1-216-100-00 | METAL GLAZE | 130K | 5% | 1/10W |
| R24 | 1-216-067-00 | METAL CHIP | 5.6K | 5% | 1/10W |
| R31 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |
| R32 | 1-216-033-00 | METAL CHIP | 220 | 5% | 1/10W |

# AUDIO(DECK B)

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R71 | 1-216-082-00 | METAL GLAZE | 24K | 5% | 1/10W |
| R72 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R73 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R74 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| | | < VARIABLE RESISTOR > | | | |
| RV11 | 1-238-012-11 | RES, ADJ, CARBON 1K (PB LEVEL L) | | | |
| RV21 | 1-238-012-11 | RES, ADJ, CARBON 1K (PB LEVEL R) | | | |
| RV71 | 1-238-016-11 | RES, ADJ, CARBON 10K (NORMAL SPEED) | | | |
| RV72 | 1-238-016-11 | RES, ADJ, CARBON 10K (HIGH SPEED) | | | |
| | | ********** | | | |
| | * A-2006-400-A | MOUNTED PCB, AUDIO (DECK B) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C11 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V |
| C12 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C13 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C14 | 1-136-273-91 | FILM | 75PF | 5% | 630V |
| C15 | 1-164-080-11 | CERAMIC | 390PF | 10% | 50V |
| C17 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C18 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C21 | 1-163-131-00 | CERAMIC CHIP | 390PF | 5% | 50V |
| C22 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C23 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C24 | 1-136-273-91 | FILM | 75PF | 5% | 630V |
| C25 | 1-164-080-11 | CERAMIC | 390PF | 10% | 50V |
| C27 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C28 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C31 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C32 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C33 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C51 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF | 10% | 50V |
| C52 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF | 10% | 50V |
| C53 | 1-163-022-00 | CERAMIC CHIP | 0.012uF | 10% | 50V |
| C54 | 1-136-559-11 | FILM | 0.0047uF | 5% | 630V |
| C56 | 1-164-505-11 | CERAMIC CHIP | 2.2uF | | 16V |
| C57 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| C58 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C71 | 1-164-346-11 | CERAMIC CHIP | 1uF | | 16V |
| | | < CONNECTOR > | | | |
| CNJ31 | * 1-580-782-11 | CONNECTOR, BOARD TO BOARD | | | |
| CNJ33 | * 1-580-782-11 | CONNECTOR, BOARD TO BOARD | | | |
| CNP32 | * 1-580-781-11 | PIN, CONNECTOR (PC BOARD) 7P | | | |
| CNP71 | * 1-564-719-11 | PIN, CONNECTOR (SMALL TYPE) 3P | | | |
| CNP72 | * 1-580-411-11 | SOCKET, CONNECTOR 4P | | | |

# AUDIO(DECK B) PANEL

| Ref.No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < DIODE > | | | |
| D31 | 8-719-988-62 | DIODE 1SS355 | | | |
| | | < IC > | | | |
| IC31 | 8-759-970-66 | IC LM833M | | | |
| | | < JUMPER > | | | |
| JW1 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW2 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| JW3 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| JW4 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| JW5 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| JW6 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| JW7 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| JW52 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW53 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW54 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW55 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW56 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW57 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW58 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW59 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW60 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| JW61 | 1-216-296-00 | METAL CHIP | 0 | 5% 1/8W | |
| | | < COIL > | | | |
| L11 | 1-410-780-11 | INDUCTOR | 27mH | | |
| L21 | 1-410-780-11 | INDUCTOR | 27mH | | |
| | | < TRANSISTOR > | | | |
| Q51 | 8-729-808-01 | TRANSISTOR 2SD1622 | | | |
| Q52 | 8-729-808-01 | TRANSISTOR 2SD1622 | | | |
| Q53 | 8-729-808-01 | TRANSISTOR 2SD1622 | | | |
| Q71 | 8-729-602-36 | TRANSISTOR 2SA1602 | | | |
| | | < RESISTOR > | | | |
| R11 | 1-216-099-00 | METAL CHIP | 120K | 5% 1/10W | |
| R12 | 1-216-025-00 | METAL CHIP | 100 | 5% 1/10W | |
| R13 | 1-216-100-00 | METAL GLAZE | 130K | 5% 1/10W | |
| R14 | 1-216-067-00 | METAL CHIP | 5.6K | 5% 1/10W | |
| R15 | 1-249-430-11 | CARBON | 12K | 5% 1/4W | |
| R21 | 1-216-099-00 | METAL CHIP | 120K | 5% 1/10W | |
| R22 | 1-216-025-00 | METAL CHIP | 100 | 5% 1/10W | |
| R23 | 1-216-100-00 | METAL GLAZE | 130K | 5% 1/10W | |
| R24 | 1-216-067-00 | METAL CHIP | 5.6K | 5% 1/10W | |
| R25 | 1-249-430-11 | CARBON | 12K | 5% 1/4W | |
| R31 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R32 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R41 | 1-249-393-11 | CARBON | 10 | 5% 1/4W | |
| R42 | 1-249-393-11 | CARBON | 10 | 5% 1/4W | |
| R51 | 1-216-075-00 | METAL CHIP | 12K | 5% 1/10W | |
| R52 | 1-216-075-00 | METAL CHIP | 12K | 5% 1/10W | |
| R53 | 1-216-073-00 | METAL CHIP | 10K | 5% 1/10W | |
| R54 | 1-216-309-00 | METAL CHIP | 5.6 | 5% 1/10W | |
| R55 | 1-216-309-00 | METAL CHIP | 5.6 | 5% 1/10W | |
| R56 | 1-216-298-00 | METAL CHIP | 2.2 | 5% 1/10W | |
| R71 | 1-216-082-00 | METAL GLAZE | 24K | 5% 1/10W | |
| R72 | 1-216-081-00 | METAL CHIP | 22K | 5% 1/10W | |
| R73 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R74 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| | | < VARIABLE RESISTOR > | | | |
| RV11 | 1-238-012-11 | RES, ADJ, CARBON 1K (PB LEVEL L) | | | |
| RV12 | 1-238-551-11 | RES, ADJ, CARBON 220K (REC BIAS L) | | | |
| RV21 | 1-238-012-11 | RES, ADJ, CARBON 1K (PB LEVEL R) | | | |
| RV22 | 1-238-551-11 | RES, ADJ, CARBON 220K (REC BIAS R) | | | |
| RV71 | 1-238-016-11 | RES, ADJ, CARBON 10K (NORMAL SPEED) | | | |
| RV72 | 1-238-016-11 | RES, ADJ, CARBON 10K (HIGH SPEED) | | | |
| | | < RELAY > | | | |
| RY31 | 1-515-726-11 | RELAY | | | |
| | | < COIL > | | | |
| T51 | 1-406-419-11 | COIL, BIAS OSCILLATION | | | |
| ********** | | | | | |
| | * A-2006-424-A | PANEL BOARD, COMPLETE (AEP, UK, G, AUS) | | | |
| | * A-2006-426-A | PANEL BOARD, COMPLETE (US, Canadian, E) | | | |
| | | ********** | | | |
| | * 3-367-839-01 | HOLDER, FL TUBE | | | |
| | * 4-932-810-11 | CUSHION (FL) | | | |
| | | < CAPACITOR > | | | |
| C351 | 1-126-163-11 | ELECT | 4.7uF | 20% 50V | |
| C352 | 1-124-638-11 | ELECT | 22uF | 20% 10V | |
| C353 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V | |
| C354 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 50V | |
| | | < CONNECTOR > | | | |
| CN351 | 1-580-883-41 | SOCKET, CONNECTOR (SMT) 12P | | | |

# PANEL

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < DIODE > | | | |
| D351 | 8-719-301-37 | LED SEL2210S-CD (NORMAL SPEED) | | | |
| D352 | 8-719-301-37 | LED SEL2210S-CD (HIGH SPEED) | | | |
| D353 | 8-719-301-37 | LED SEL2210S-CD (CD SYNCHRO) | | | |
| | | < FLUORESCENT > | | | |
| FL351 | 1-519-638-11 | INDICATOR TUBE, FLUORESCENT | | | |
| | | < IC > | | | |
| IC351 | 8-759-323-35 | IC HD-614023-FA93 | | | |
| | | < RESISTOR > | | | |
| R351 | 1-216-029-00 | METAL CHIP | 150 | 5% 1/10W | |
| R352 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R353 | 1-216-037-00 | METAL CHIP | 330 | 5% 1/10W | |
| R354 | 1-216-041-00 | METAL CHIP | 470 | 5% 1/10W | |
| R355 | 1-216-045-00 | METAL CHIP | 680 | 5% 1/10W | |
| R356 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R357 | 1-216-055-00 | METAL CHIP | 1.8K | 5% 1/10W | (US, Canadian, E) |
| R357 | 1-216-067-00 | METAL CHIP | 5.6K | 5% 1/10W | (AEP, UK, G, AUS) |
| R359 | 1-216-029-00 | METAL CHIP | 150 | 5% 1/10W | |
| R360 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R361 | 1-216-037-00 | METAL CHIP | 330 | 5% 1/10W | |
| R362 | 1-216-041-00 | METAL CHIP | 470 | 5% 1/10W | |
| R363 | 1-216-045-00 | METAL CHIP | 680 | 5% 1/10W | |
| R364 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R365 | 1-216-067-00 | METAL CHIP | 5.6K | 5% 1/10W | |
| R366 | 1-216-295-00 | METAL CHIP | 0 | 5% 1/10W | |
| R367 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R368 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R369 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R371 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R375 | 1-216-081-00 | METAL CHIP | 22K | 5% 1/10W | |
| R376 | 1-216-121-00 | METAL CHIP | 1M | 5% 1/10W | |
| R377 | 1-216-085-00 | METAL CHIP | 33K | 5% 1/10W | |
| R378 | 1-216-025-00 | METAL CHIP | 100 | 5% 1/10W | |
| R379 | 1-216-025-00 | METAL CHIP | 100 | 5% 1/10W | |
| R380 | 1-216-025-00 | METAL CHIP | 100 | 5% 1/10W | |
| R381 | 1-216-025-00 | METAL CHIP | 100 | 5% 1/10W | |
| | | < SWITCH > | | | |
| S351 | 1-572-184-11 | SWITCH, KEYBOARD (CD SYNCHRO) | | | |
| S352 | 1-572-184-11 | SWITCH, KEYBOARD ( ◁◁ ) | | | |
| S353 | 1-572-184-11 | SWITCH, KEYBOARD ( ▷▷ ) | | | |
| S354 | 1-572-184-11 | SWITCH, KEYBOARD ( ▯▯ ) | | | |
| S355 | 1-572-184-11 | SWITCH, KEYBOARD (DECK B) | | | |
| S356 | 1-572-184-11 | SWITCH, KEYBOARD (DECK A) | | | |
| S357 | 1-572-184-11 | SWITCH, KEYBOARD (RESET) | | | |
| S358 | 1-572-184-11 | SWITCH, KEYBOARD (DOLBY NR) | | | |
| S361 | 1-572-184-11 | SWITCH, KEYBOARD (NORMAL SPEED) | | | |
| S362 | 1-572-184-11 | SWITCH, KEYBOARD (HIGH SPEED) | | | |
| S363 | 1-572-184-11 | SWITCH, KEYBOARD ( □ ) | | | |
| S364 | 1-572-184-11 | SWITCH, KEYBOARD ( ▷ ) | | | |
| S365 | 1-572-184-11 | SWITCH, KEYBOARD ( ▷ ) | | | |
| S366 | 1-572-184-11 | SWITCH, KEYBOARD (REC ● ) | | | |
| S368 | 1-572-184-11 | SWITCH, KEYBOARD (DIRECTION) | | | |
| | | < CERAMIC > | | | |
| X351 | 1-577-359-21 | VIBRATOR, CERAMIC | | | |

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MISCELLANEOUS

**********

| | | |
|---|---|---|
| 6 | 1-590-904-11 | WIRE, FLAT TYPE (12 CORE) |
| 22 | 1-590-579-11 | CORD (WITH CONNECTOR) |
| 23 | 1-590-902-11 | WIRE, FLAT TYPE (9 CORE) |
| 72 | 1-638-983-11 | PC BOARD, MOTOR FLEXIBLE |
| HP901 | A-2003-837-A | BASE ASSY, HEAD (DECK A) |
| HRPE901 | A-2003-838-A | BASE ASSY, HEAD (DECK B) |
| M901A | X-3359-417-1 | MOTOR ASSY, CAPSTAN |
| M901B | X-3359-417-1 | MOTOR ASSY, CAPSTAN |
| M902A | X-3363-501-1 | MOTOR ASSY, REEL |
| M902B | X-3363-501-1 | MOTOR ASSY, REEL |

**********

ACCESSORY & PACKING MATERIAL

**********

* 4-943-847-01 CUSHION, UPPER (EXECPT E)
* 4-943-848-01 CUSHION, LOWER (EXCEPT E)

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## HARDWARE LIST

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| | | |
|---|---|---|
| # 1 | 7-621-773-93 | SCREW (PANEL 2.6 TP2) |
| # 2 | 7-621-255-15 | SCREW +PTT 2X3 (S) |
| # 3 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |
| # 4 | 7-685-870-01 | SCREW +BVTT 3X5 |
| # 5 | 7-682-547-04 | SCREW +BVTT 3X6 (S) |
| # 6 | 7-621-775-00 | SCREW +B 2.6X3 |
| # 7 | 7-627-556-08 | SCREW +P 2.6X2.8 |

9-956-342-11

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Audio Group

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